FIG. 1A

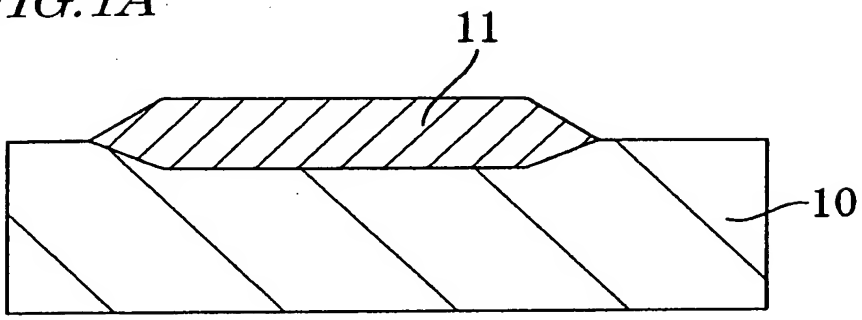


FIG. 1B

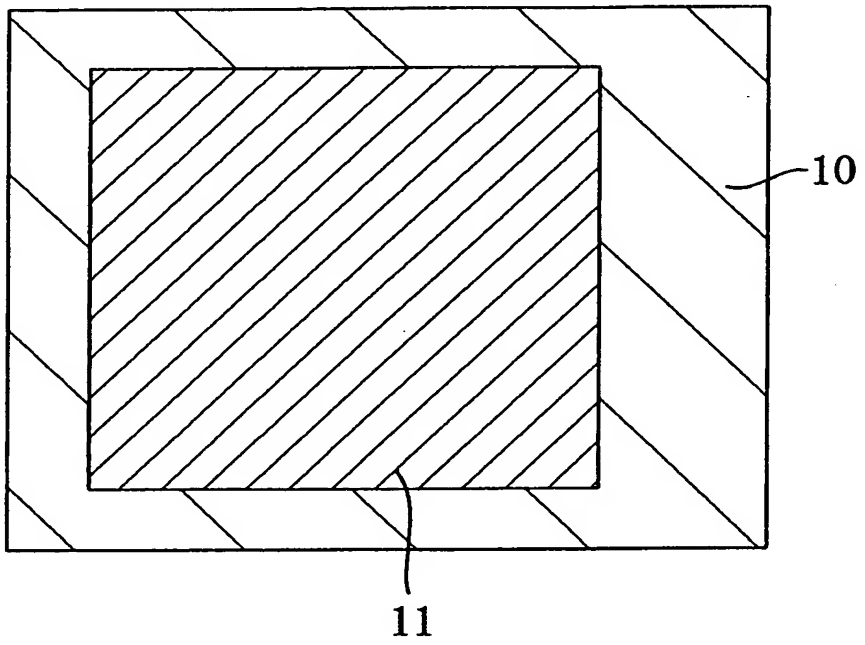


FIG.2A

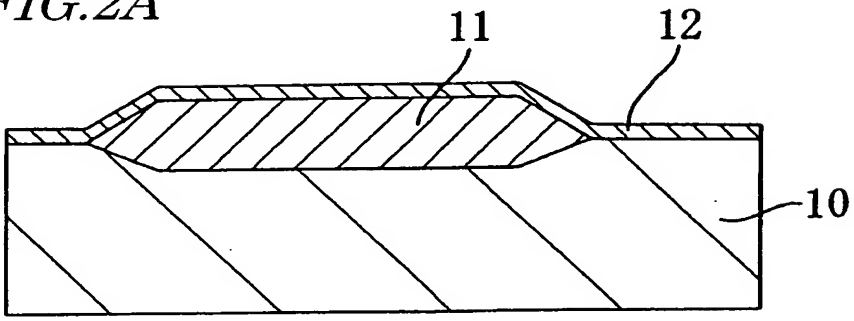


FIG.2B

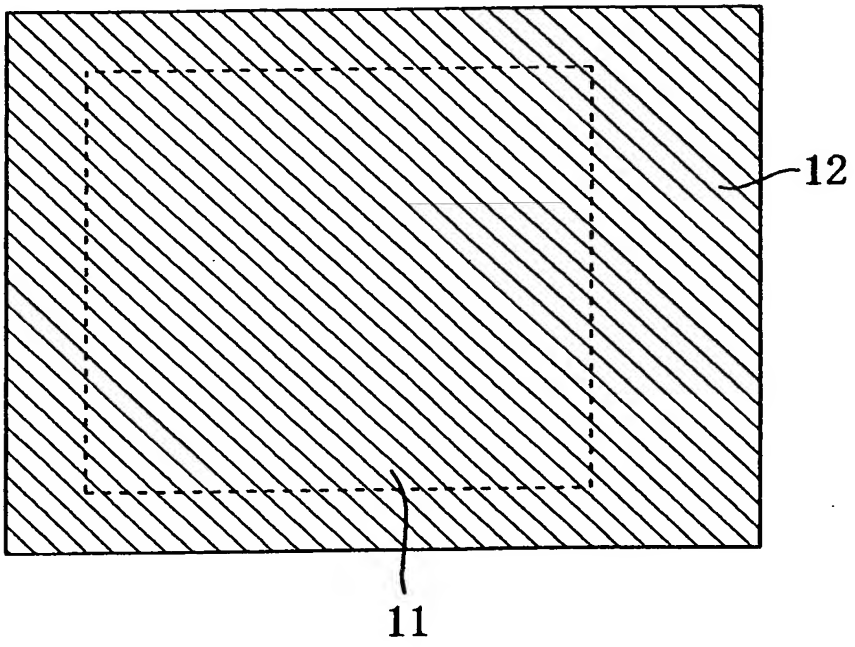


FIG.3A

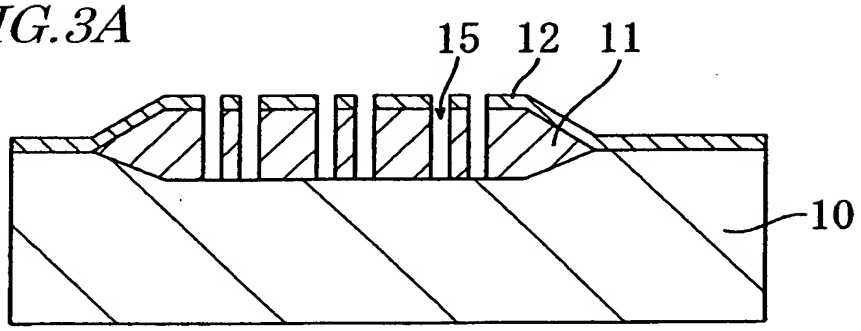


FIG.3B

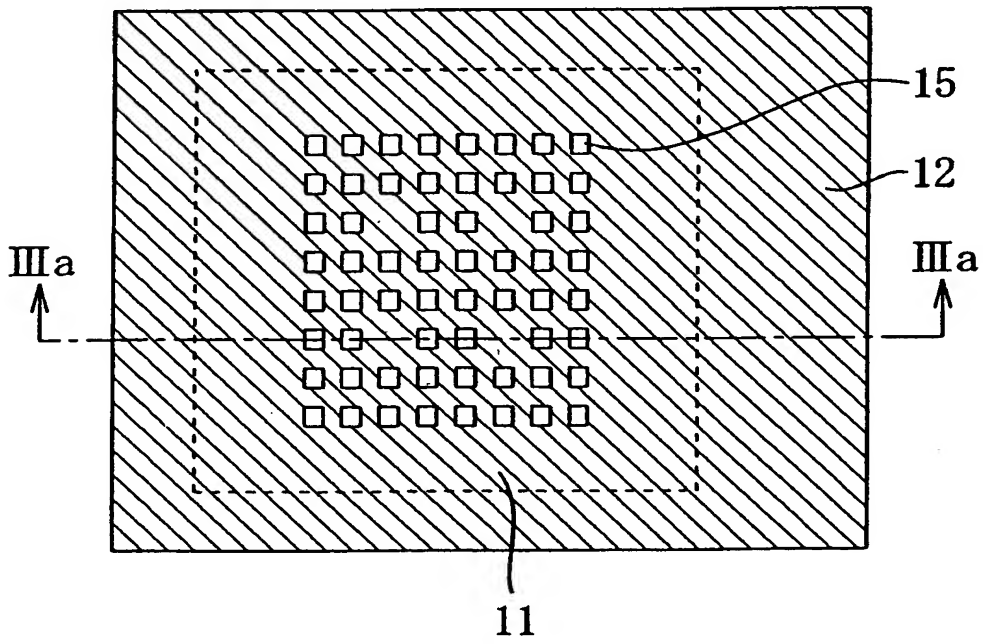


FIG.4A

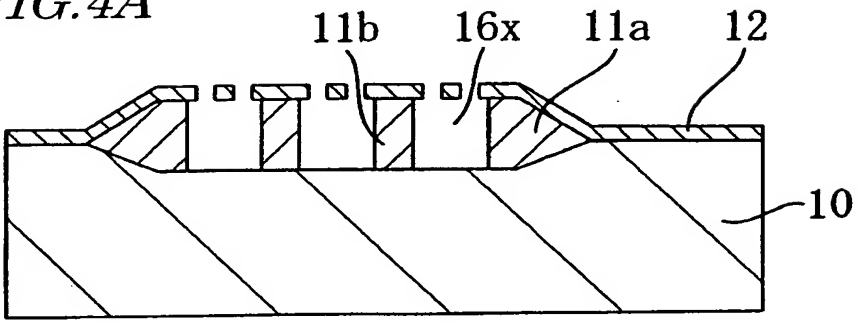


FIG.4B

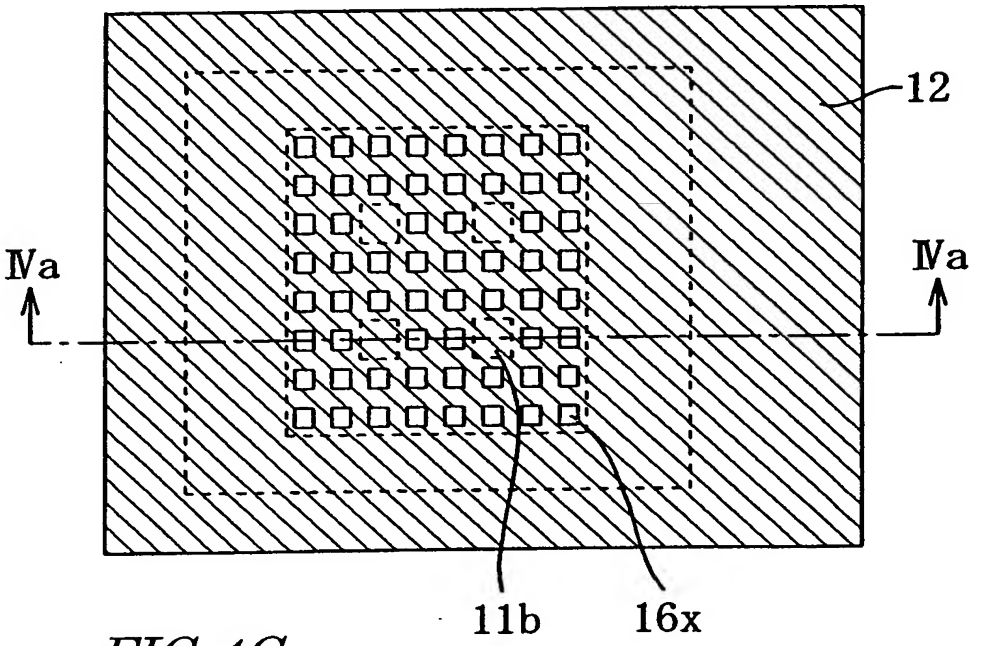


FIG.4C

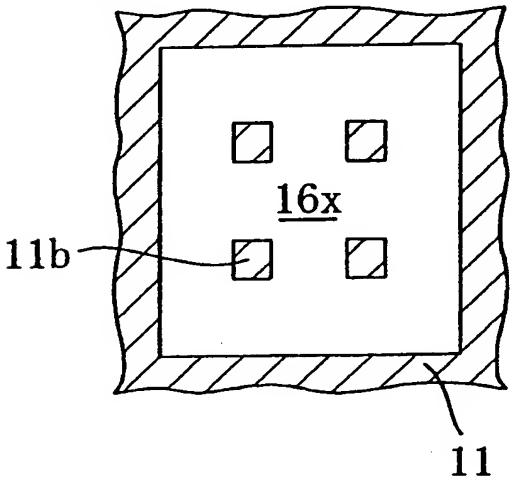


FIG.5A

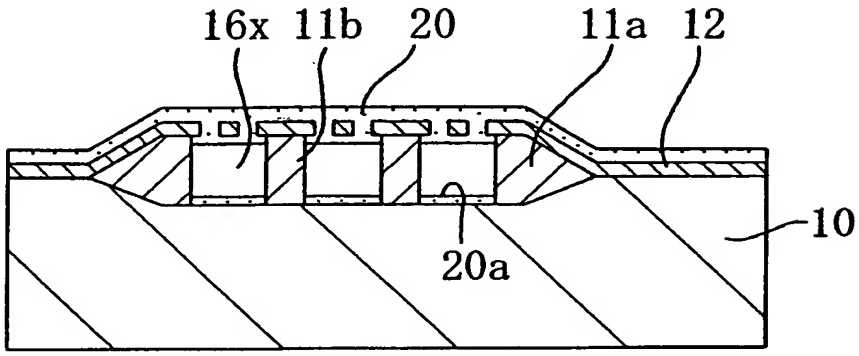


FIG.5B

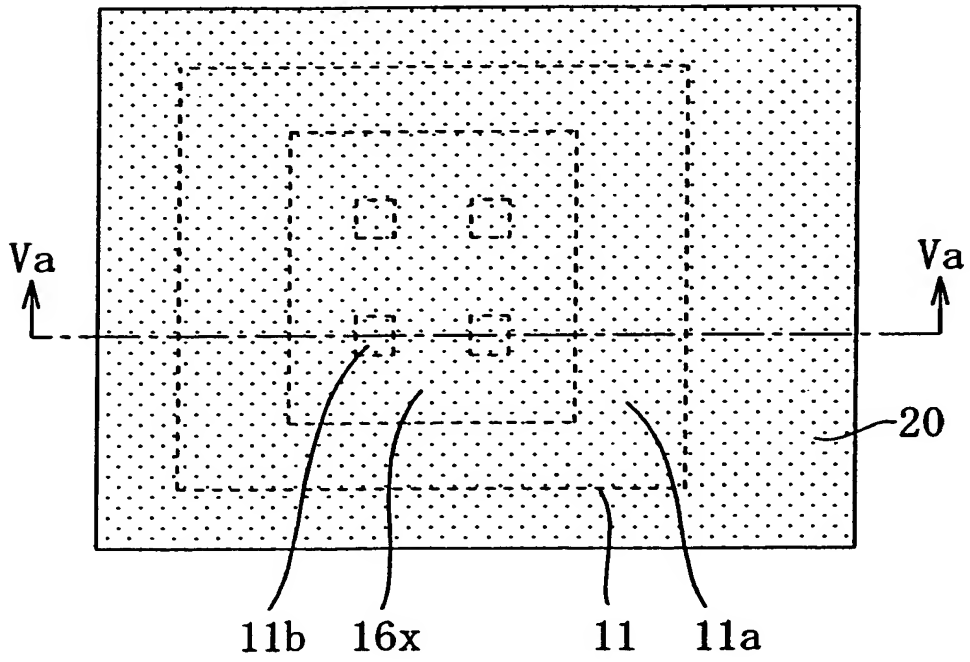


FIG.6A

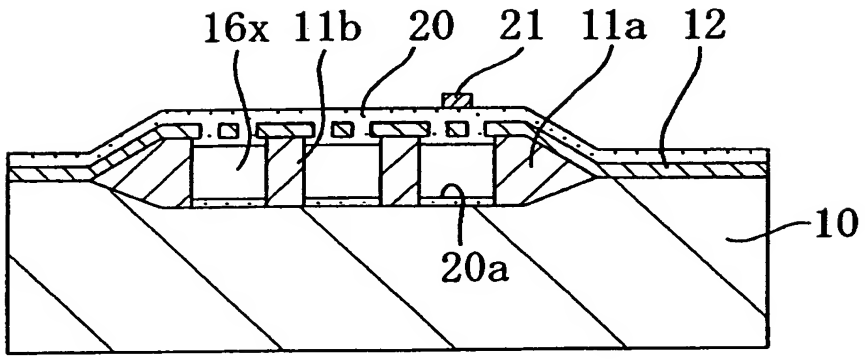


FIG.6B

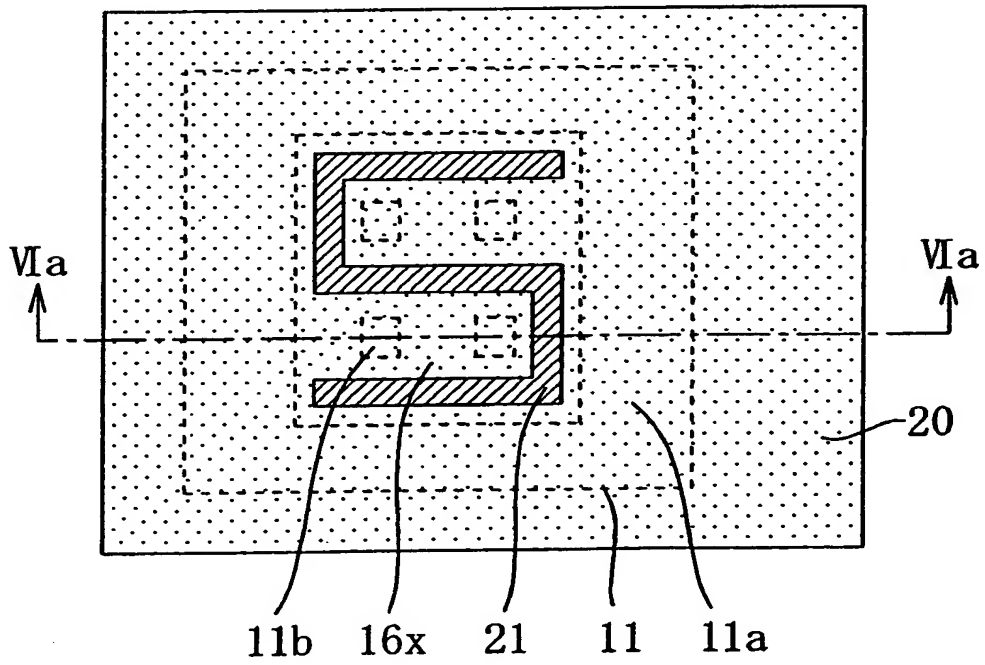


FIG. 7A

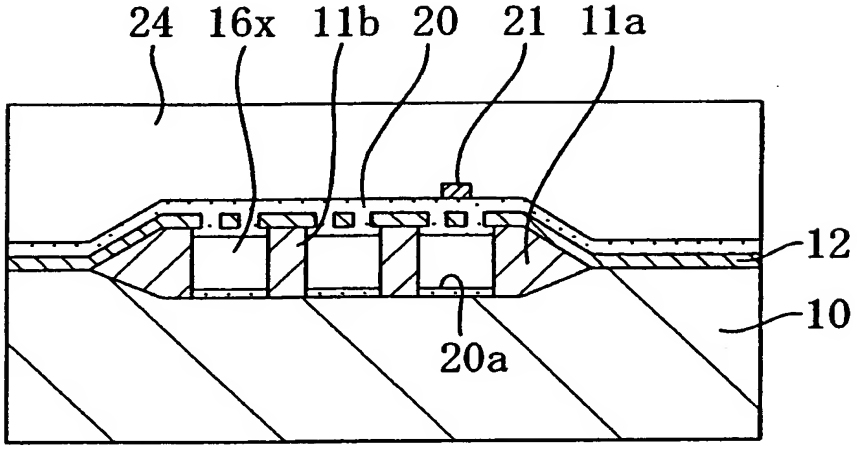


FIG. 7B

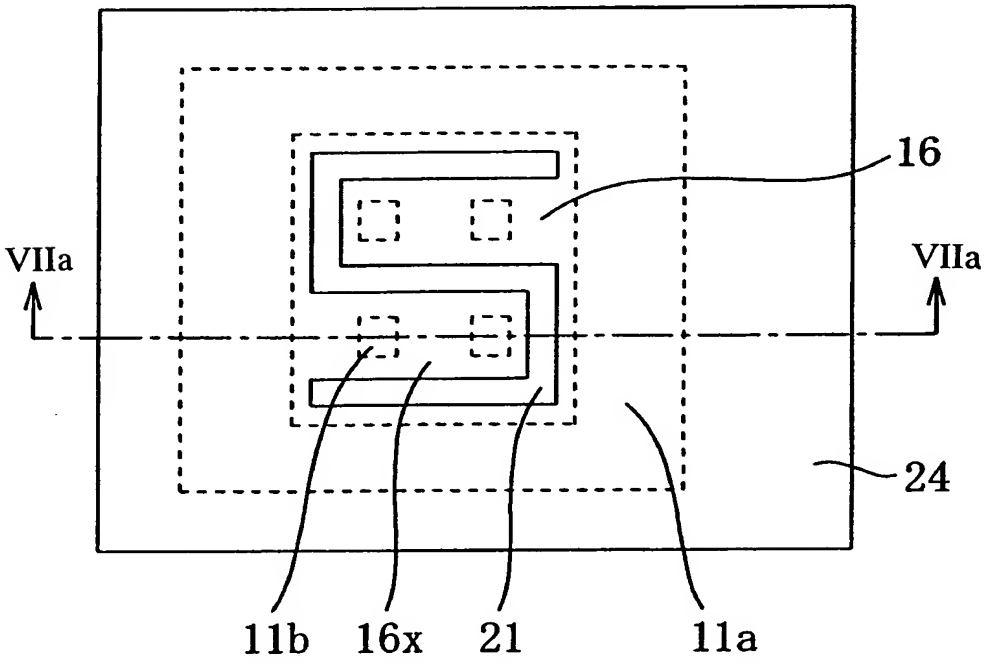


FIG.8A

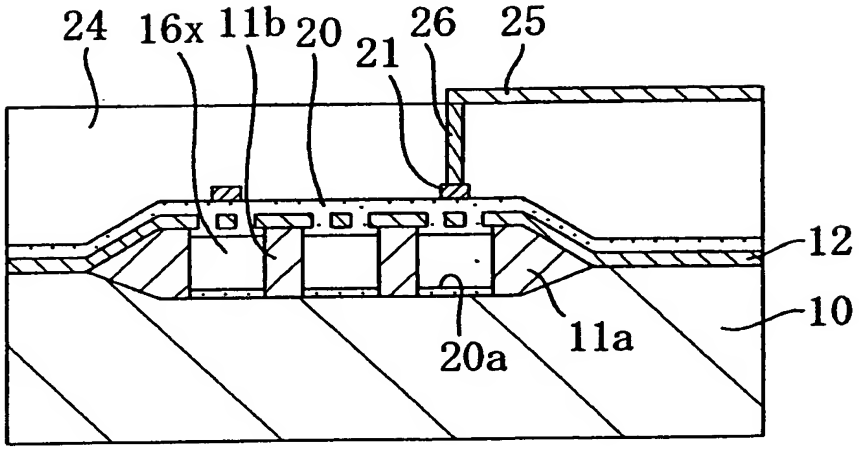

24
16x
11b
20
21
26
25
12
10
11a
20a

FIG.8B

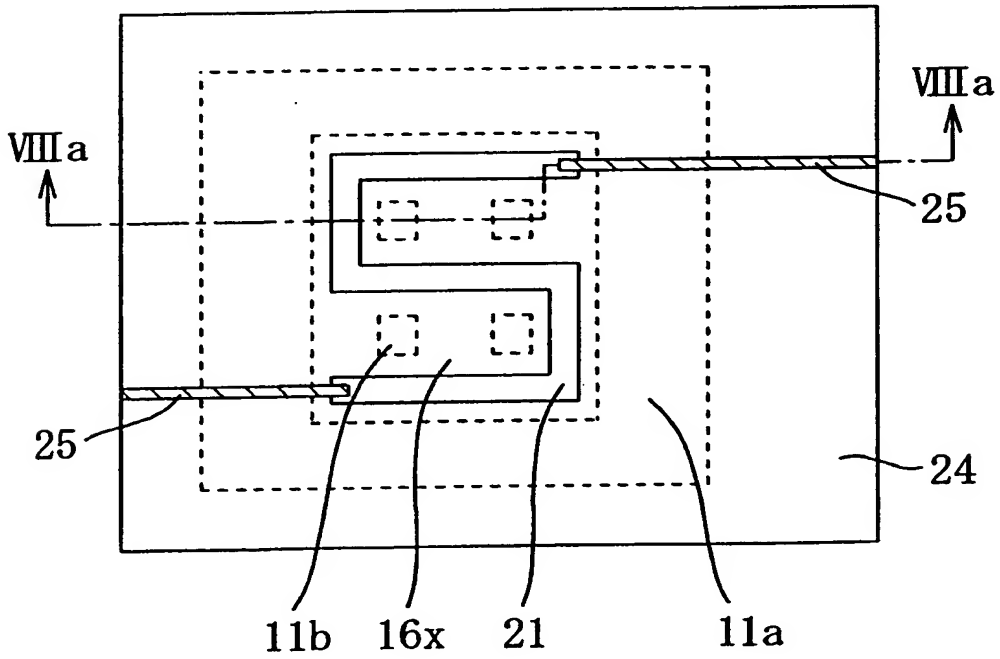

VIIIa
VIIIa
25
25
24
11b
16x
21
11a

FIG. 9A

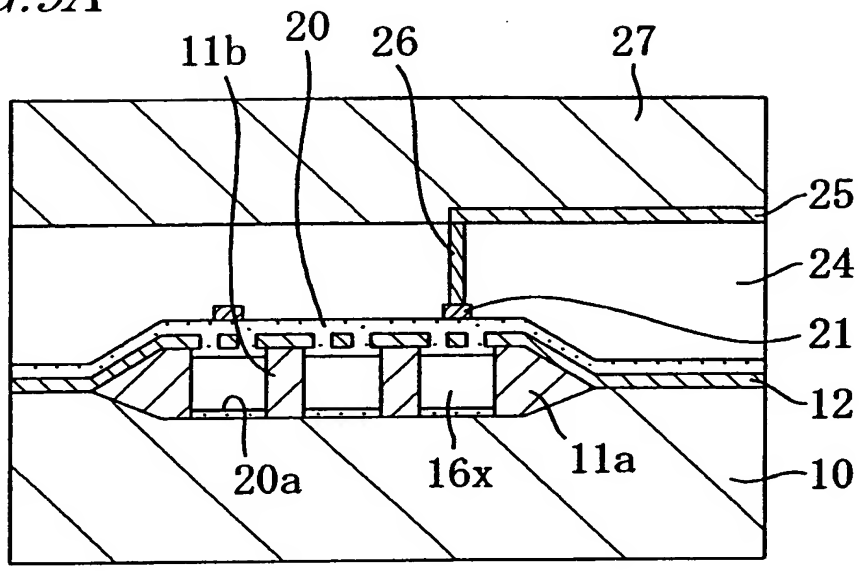

11b
20
26
27
25
24
21
12
20a
16x
11a
10

FIG. 9B

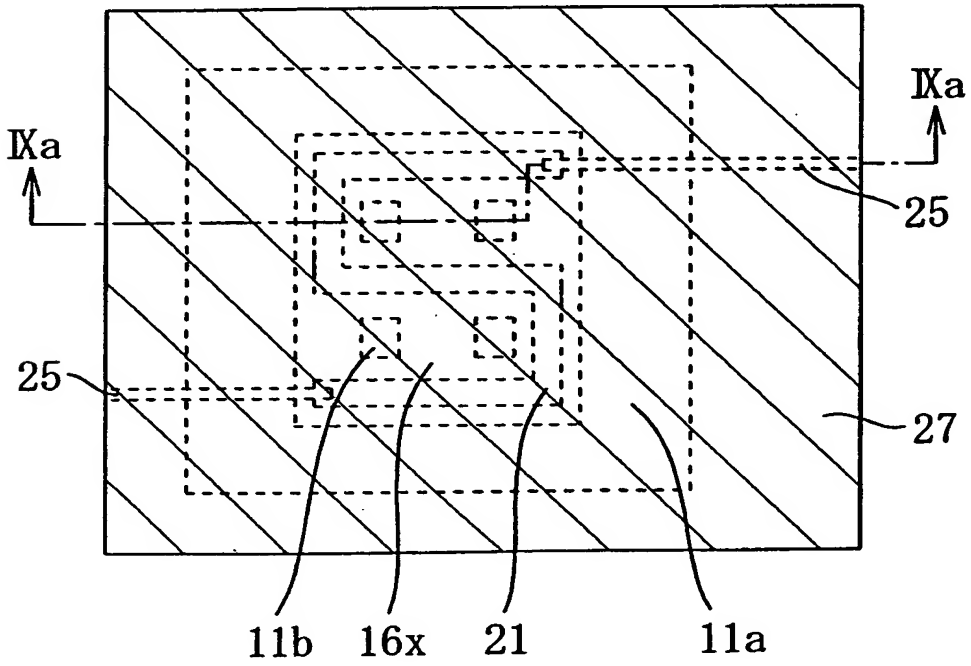

IXa
IXa
25
25
27
11b
16x
21
11a

FIG. 10A

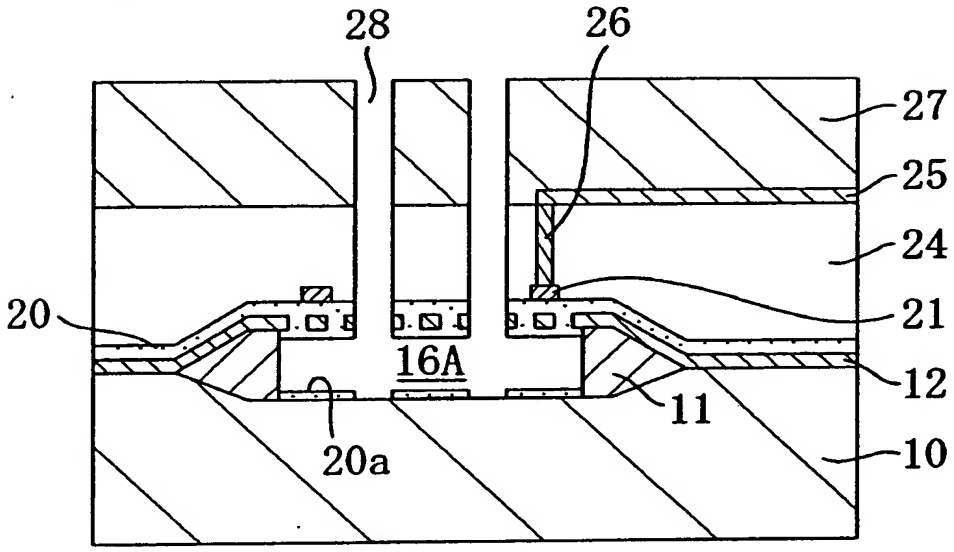


FIG. 10B

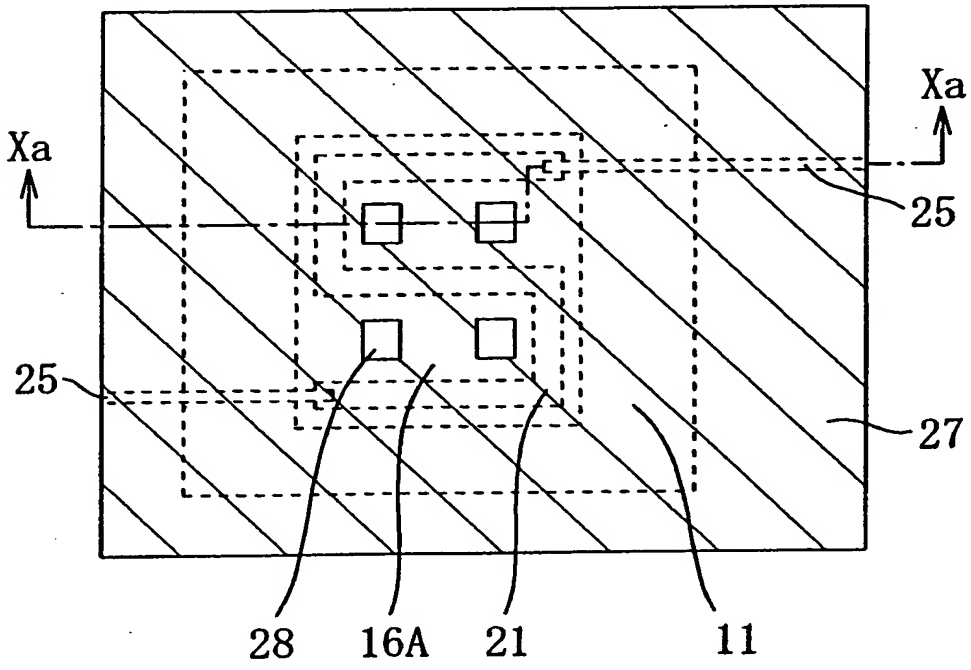


FIG. 11A

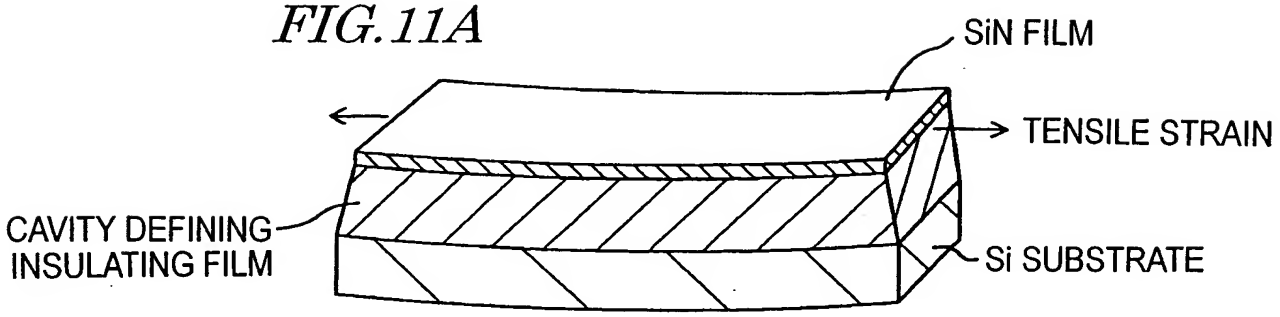


FIG. 11B

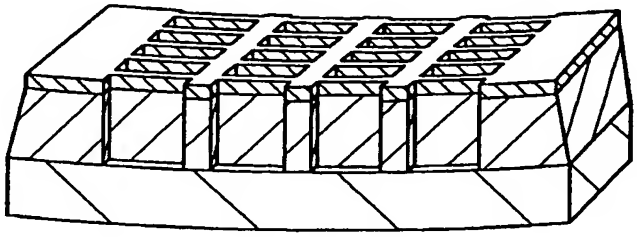


FIG. 11C

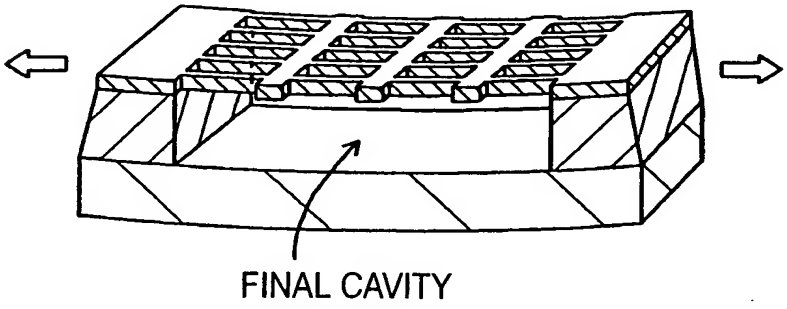


FIG. 11D

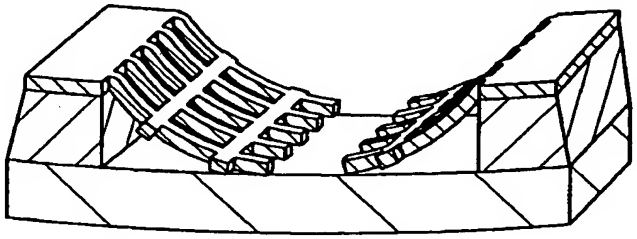


FIG. 12A

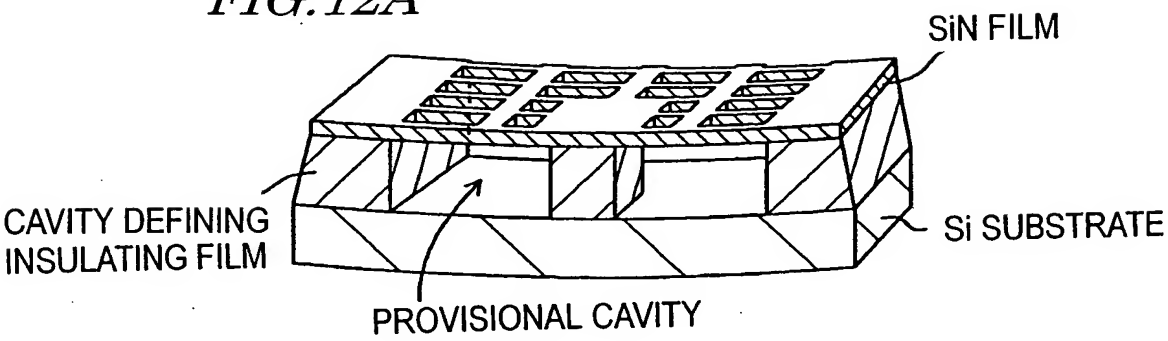


FIG. 12B

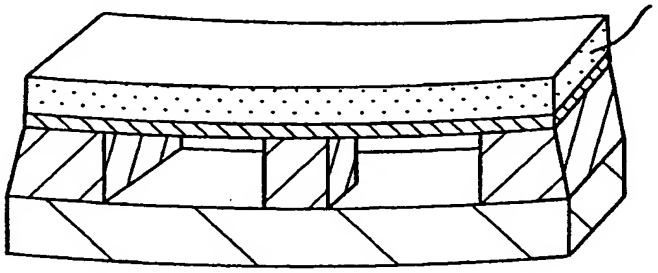


FIG. 12C

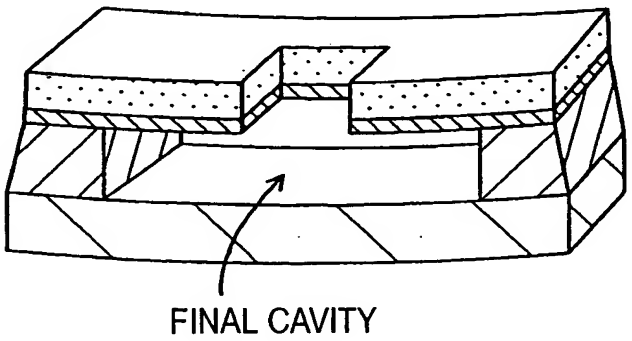


FIG.13A

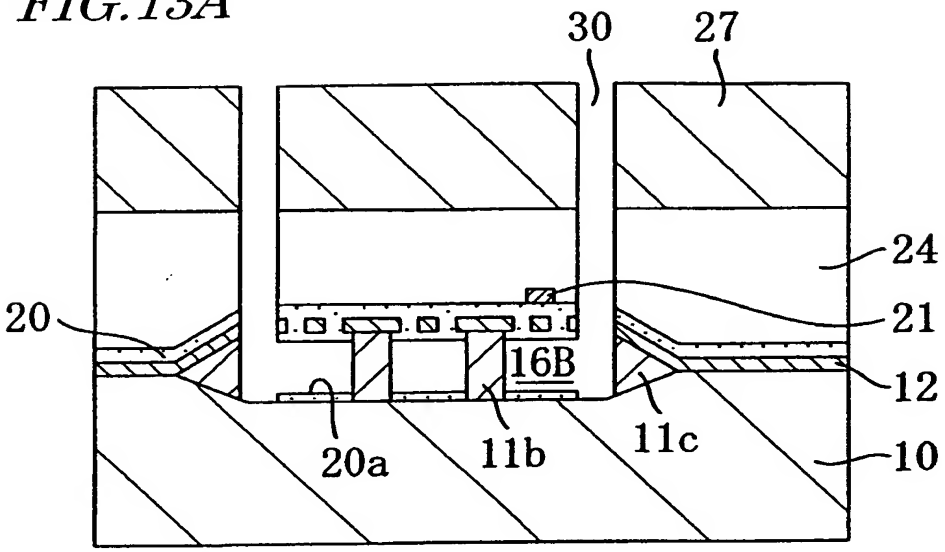


FIG.13B

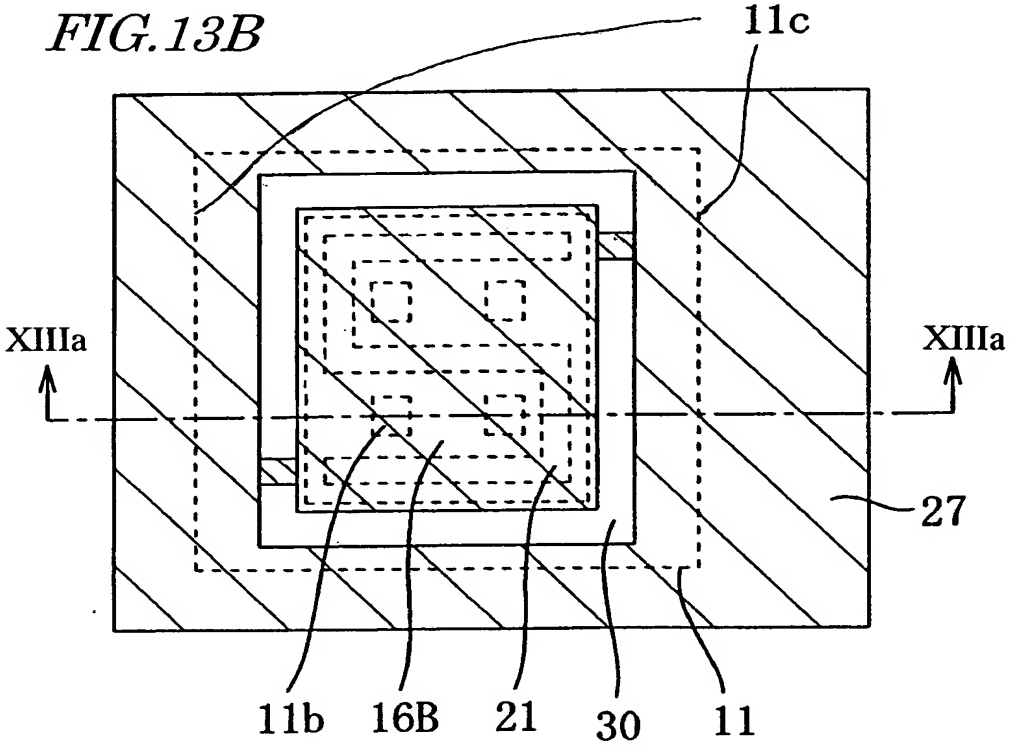


FIG. 14A

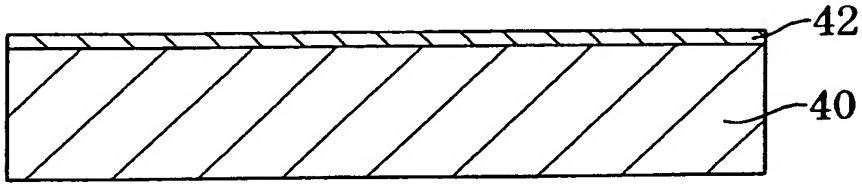


FIG. 14B

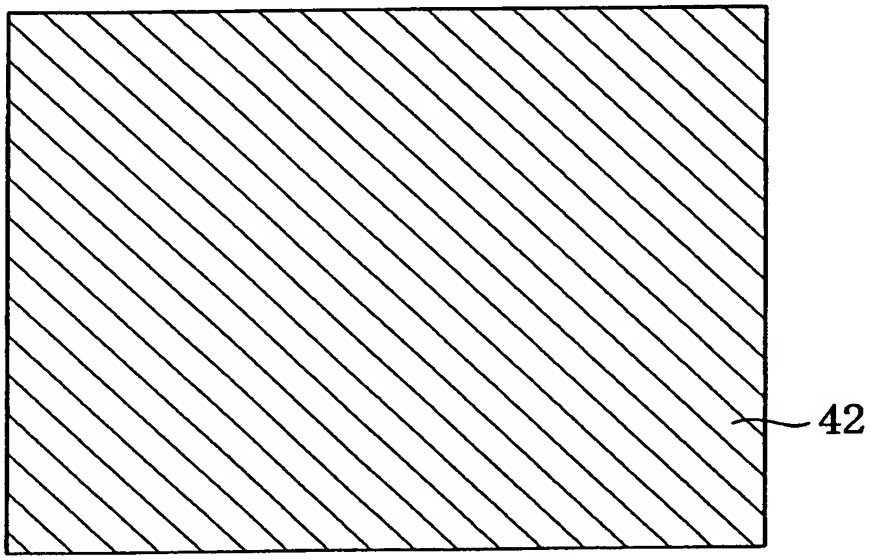


FIG. 15A

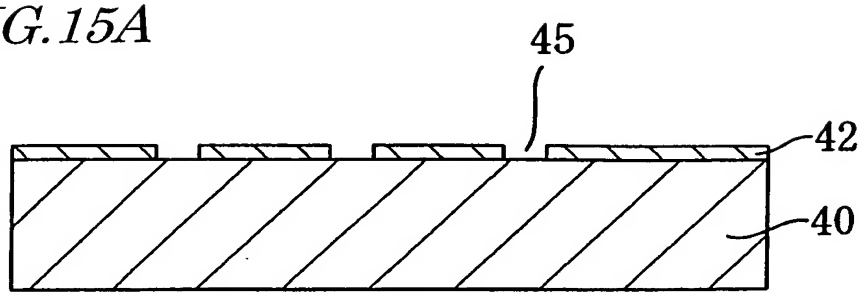


FIG. 15B

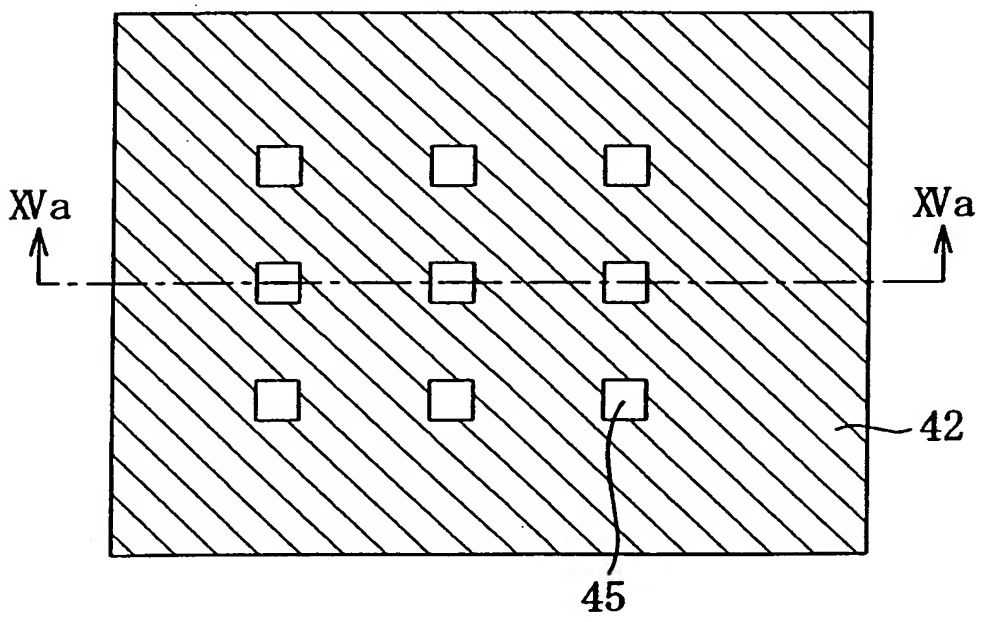


FIG. 16A

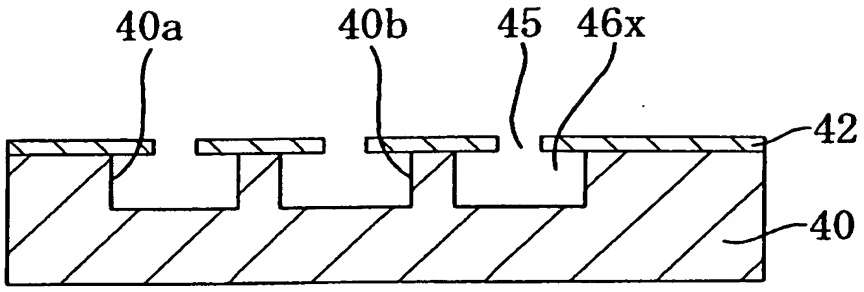


FIG. 16B

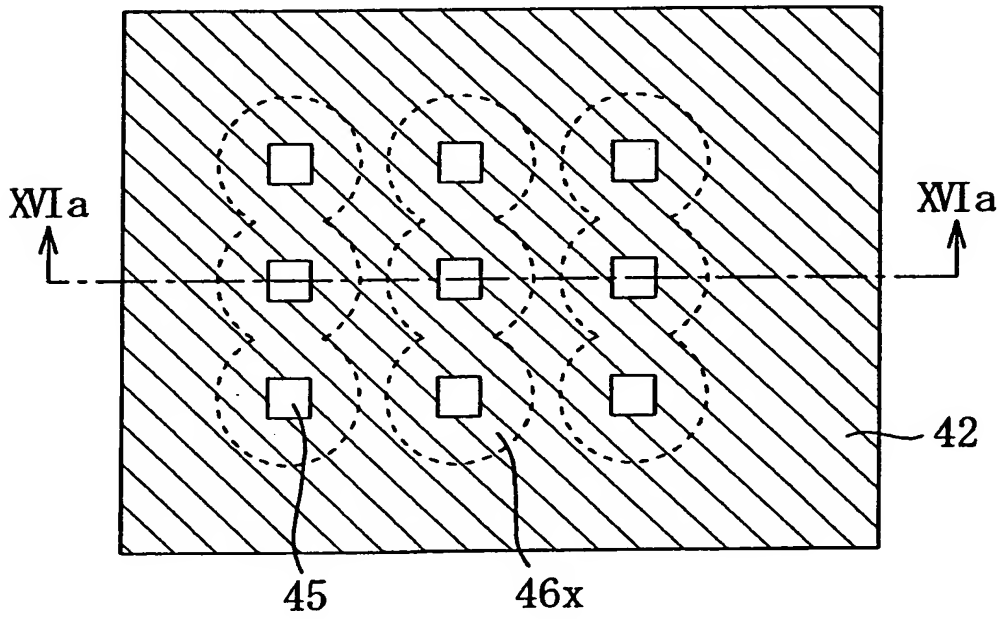


FIG. 17A

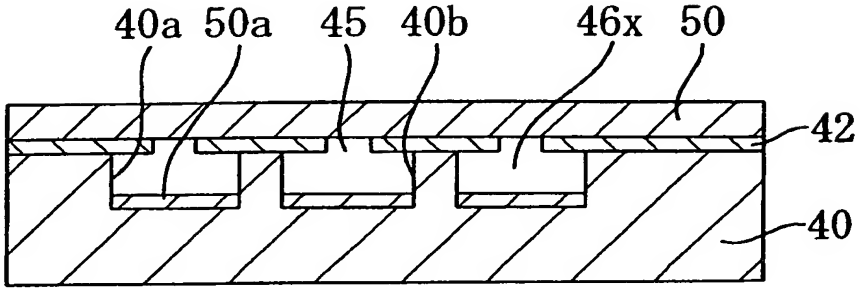


FIG. 17B

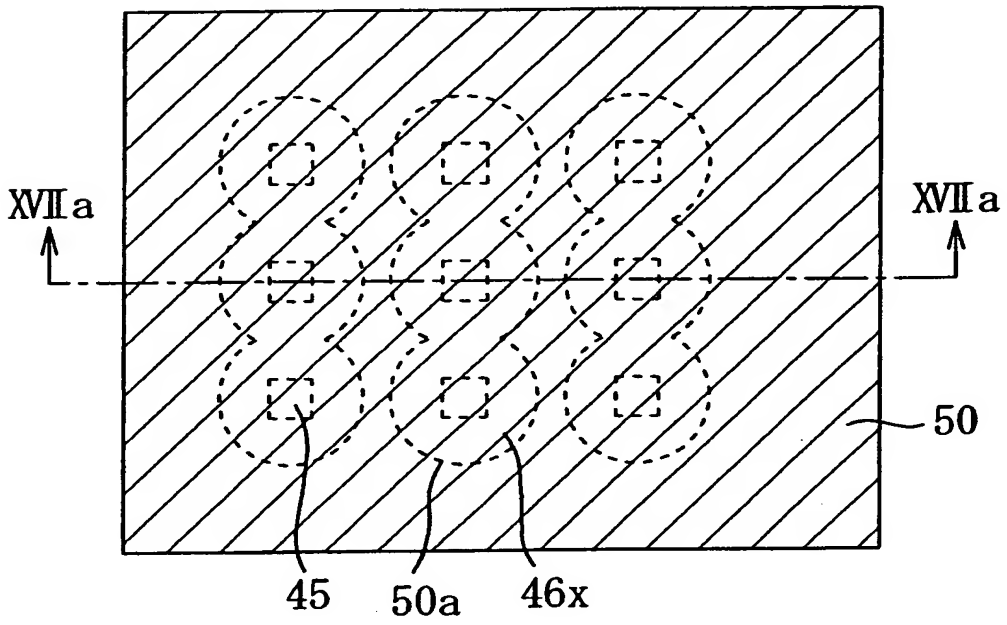


FIG. 18A

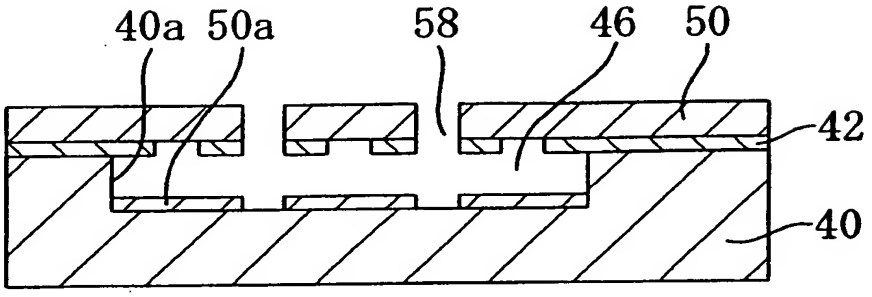


FIG. 18B

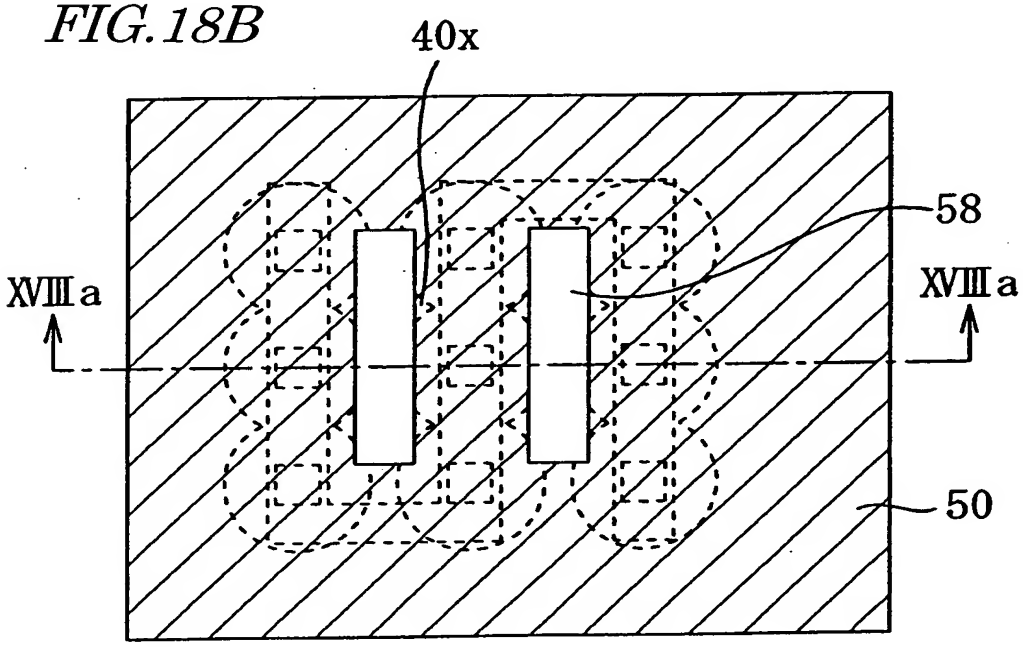


FIG.19A

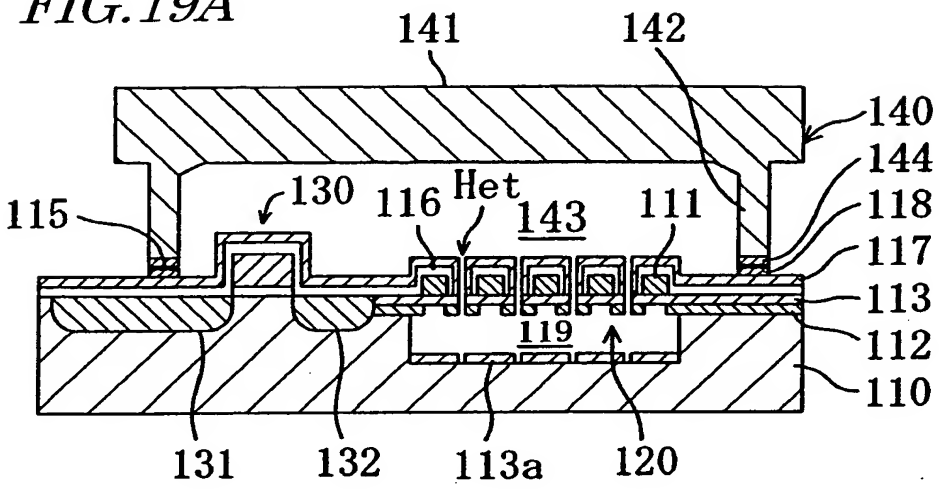


FIG.19B

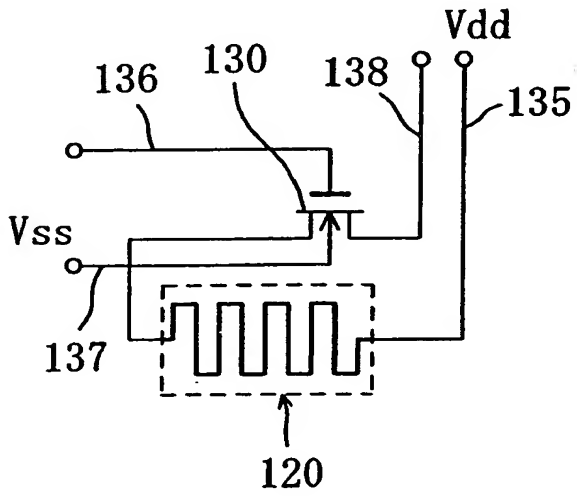


FIG.20A

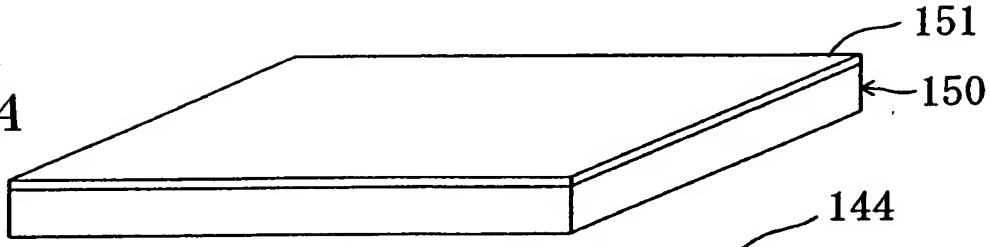


FIG.20B

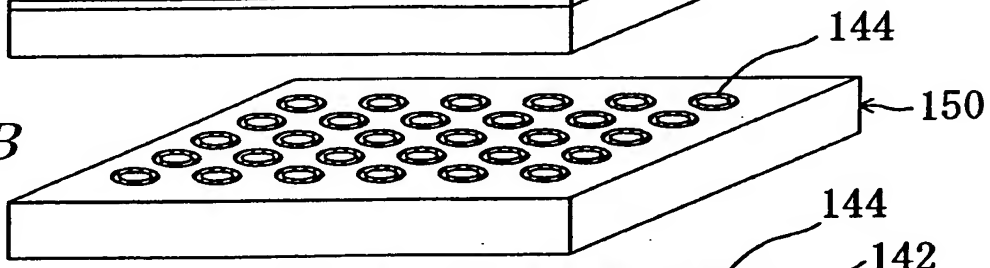


FIG.20C

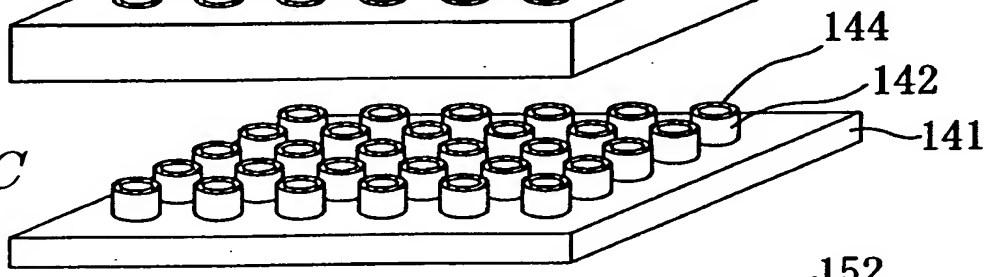


FIG.20D

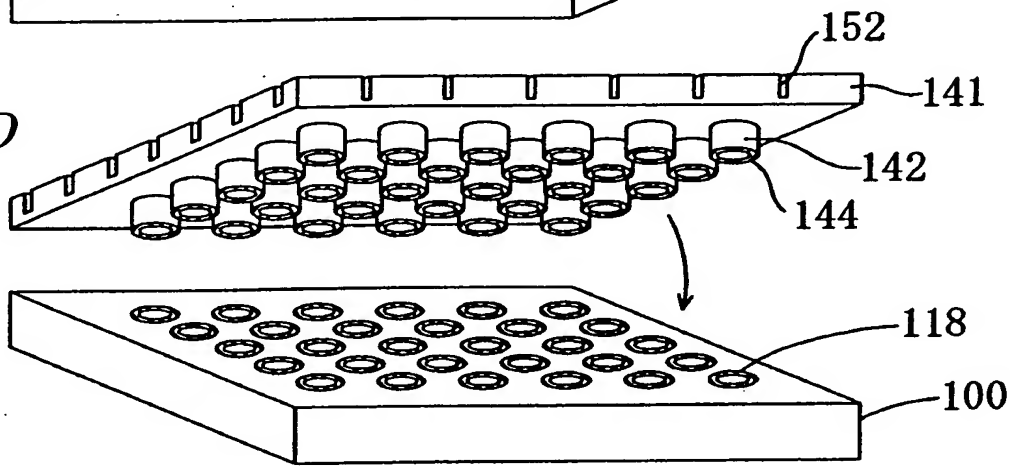


FIG.20E

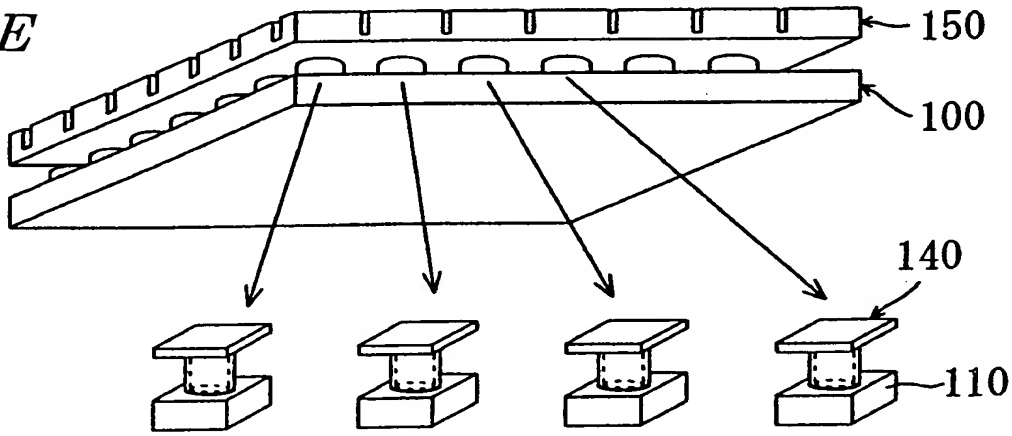


FIG.21

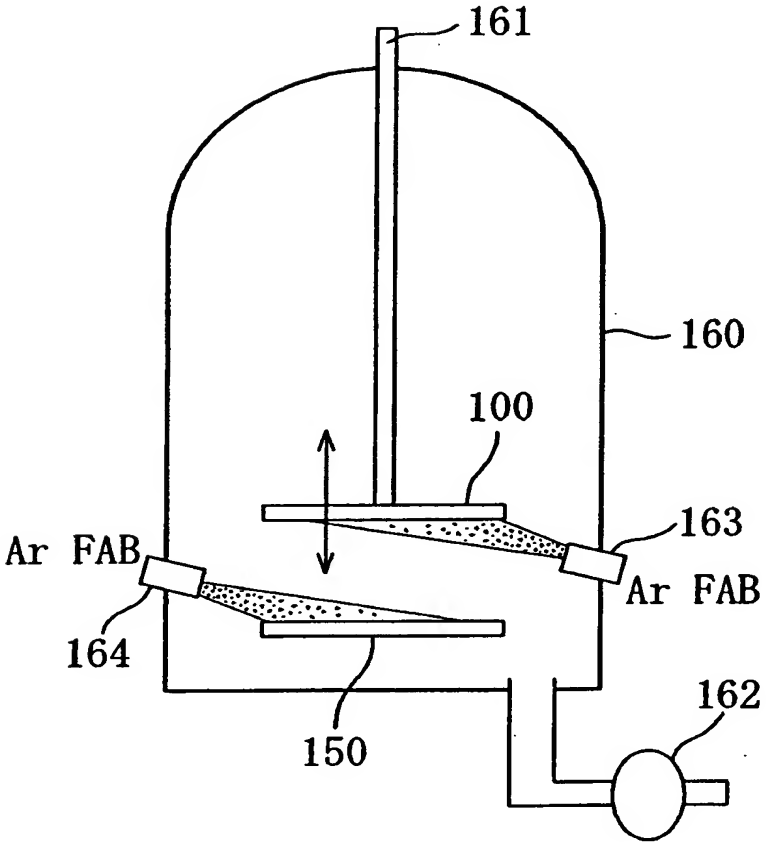


FIG.22

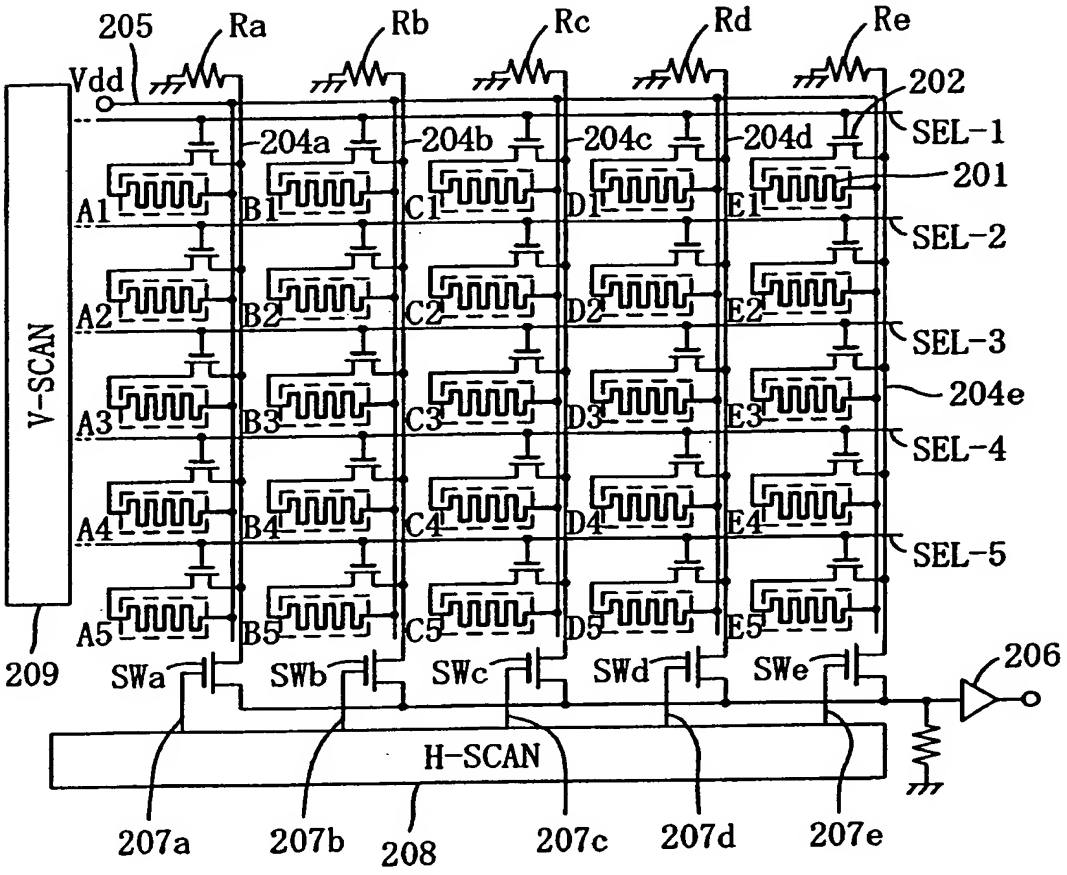

205
Ra
Rb
Rc
Rd
Re
Vdd
202
SEL-1
204a
204b
204c
204d
201
A1
B1
C1
D1
E1
SEL-2
A2
B2
C2
D2
E2
SEL-3
V-SCAN
A3
B3
C3
D3
E3
204e
SEL-4
A4
B4
C4
D4
E4
SEL-5
A5
B5
C5
D5
E5
206
209
SWa
SWb
SWc
SWd
SWe
H-SCAN
207a
207b
208
207c
207d
207e

FIG.23

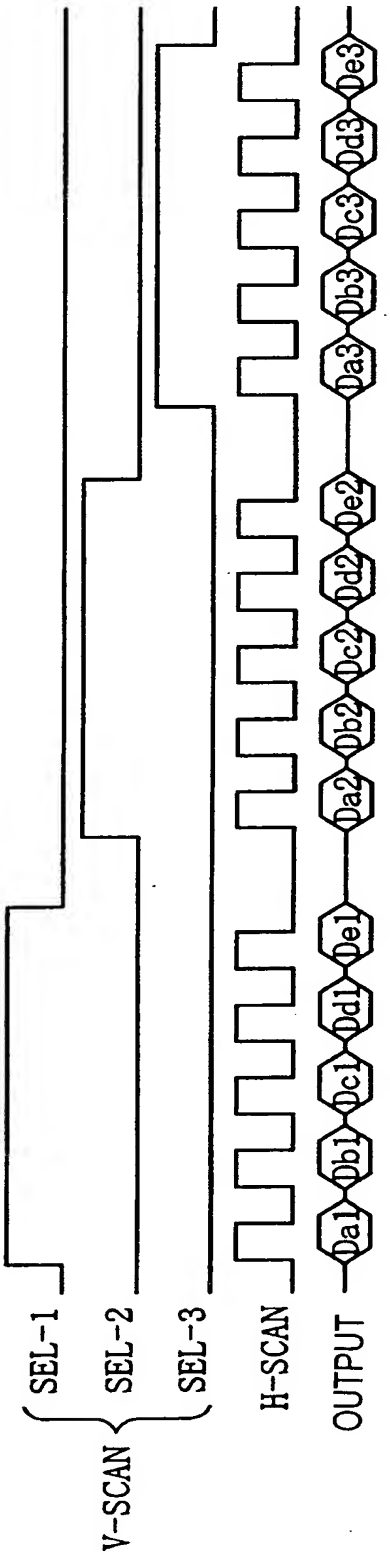

SEL-1
SEL-2
SEL-3
V-SCAN
H-SCAN
OUTPUT
Da1
Db1
Dc1
Dd1
De1
Da2
Db2
Dc2
Dd2
De2
Da3
Db3
Dc3
Dd3
De3

FIG.24

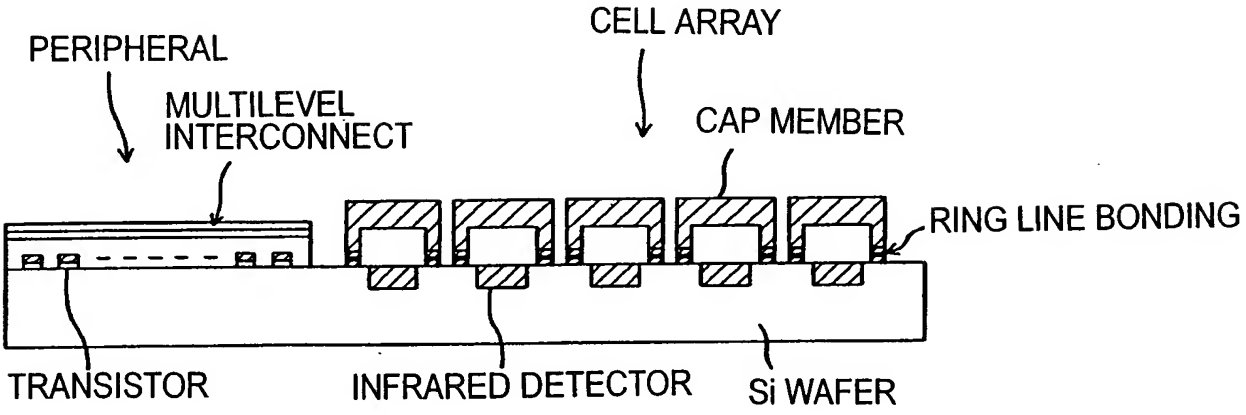


FIG.25

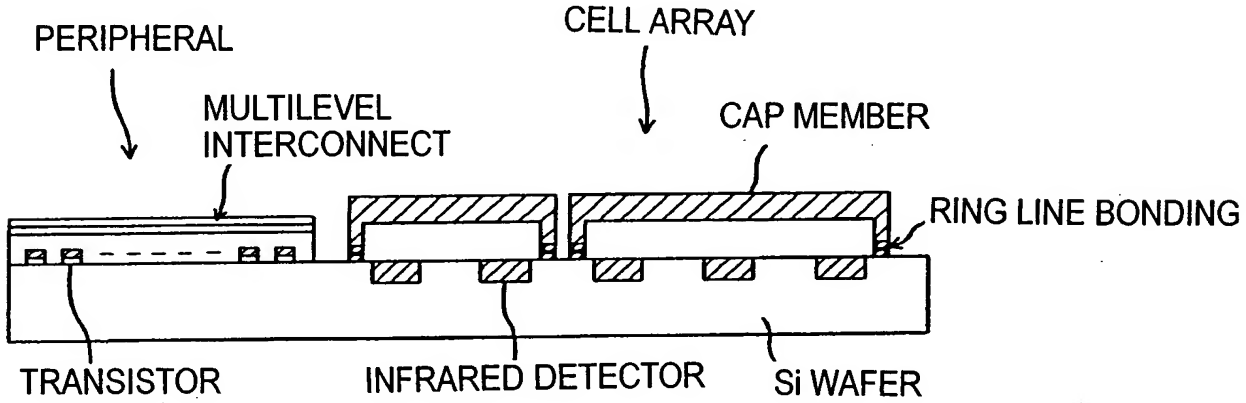


FIG.26

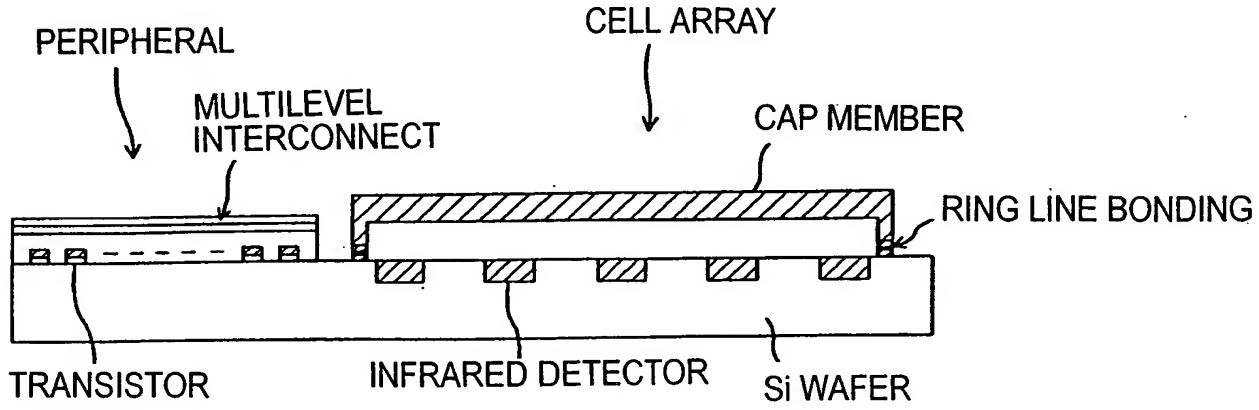


FIG.27

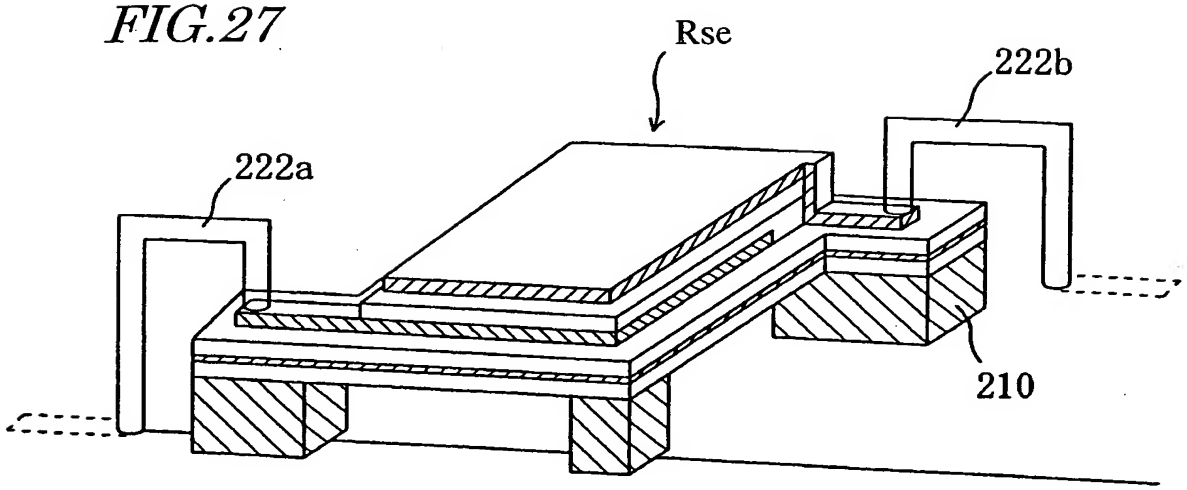


FIG.28

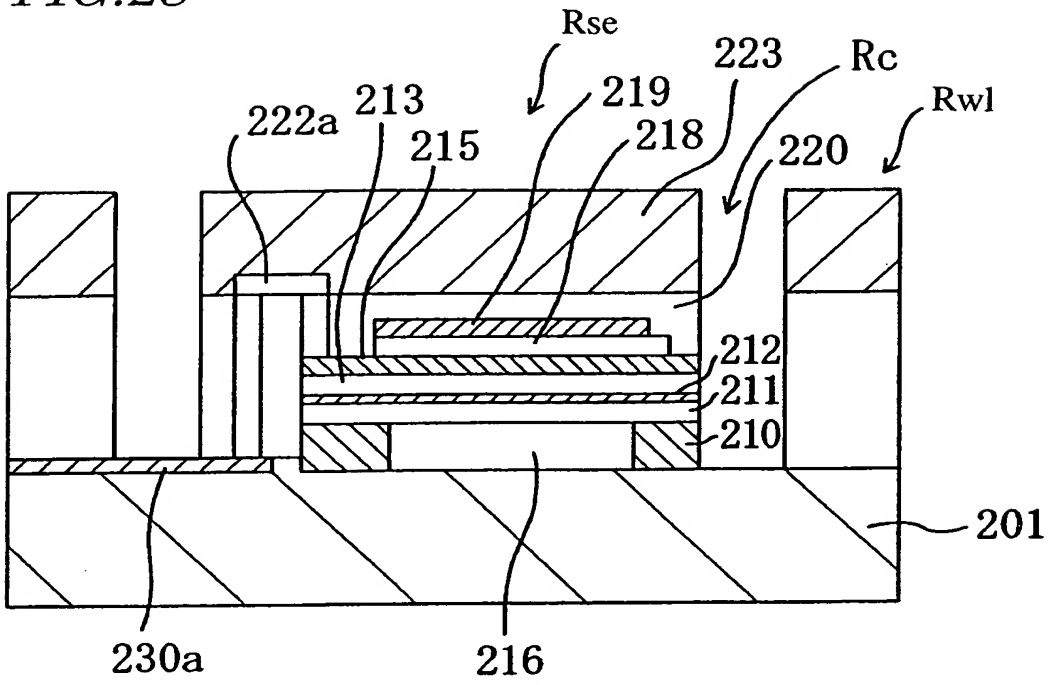

Rse
223
Rc
Rwl
222a
213
219
218
220
215
212
211
210
201
230a
216

FIG.29

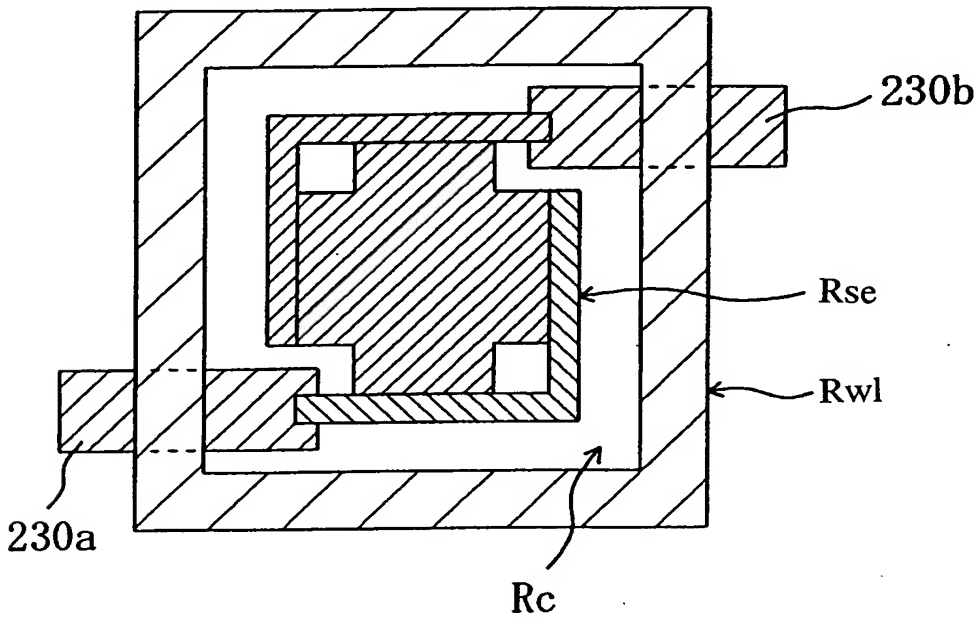
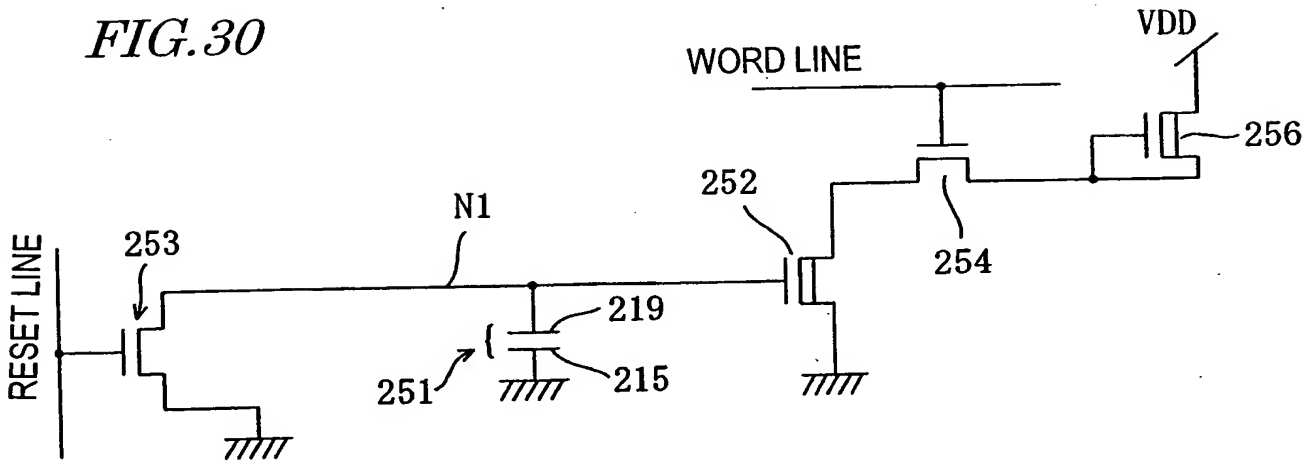

230b
Rse
Rwl
230a
Rc

FIG.30



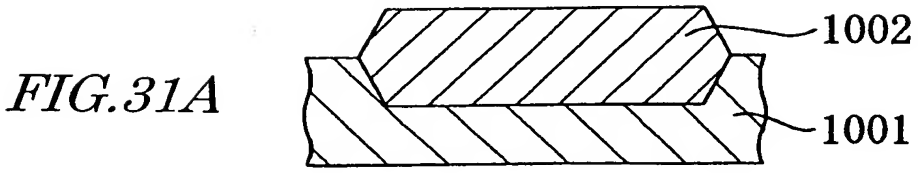


FIG.31A

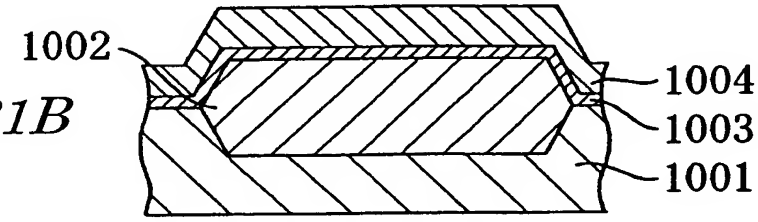


FIG.31B

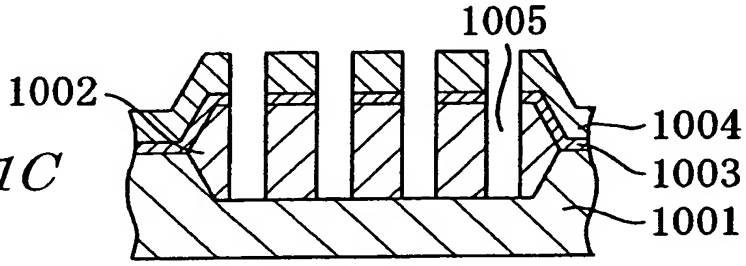


FIG.31C

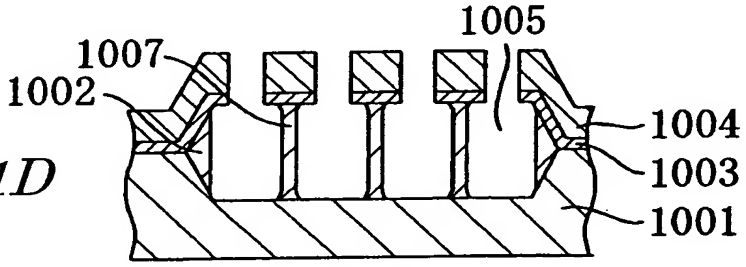


FIG.31D

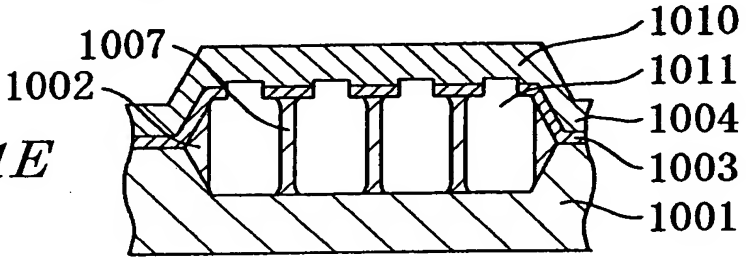


FIG.31E

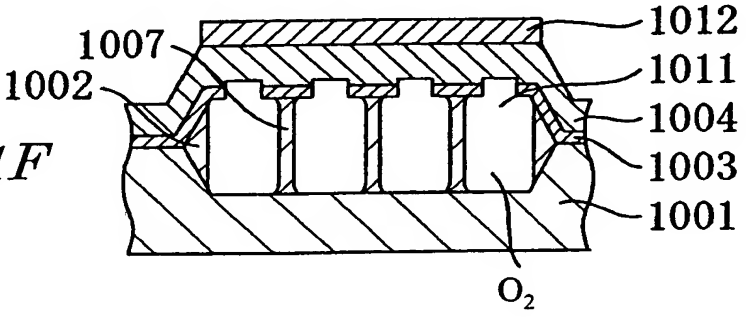


FIG.31F

FIG.32A

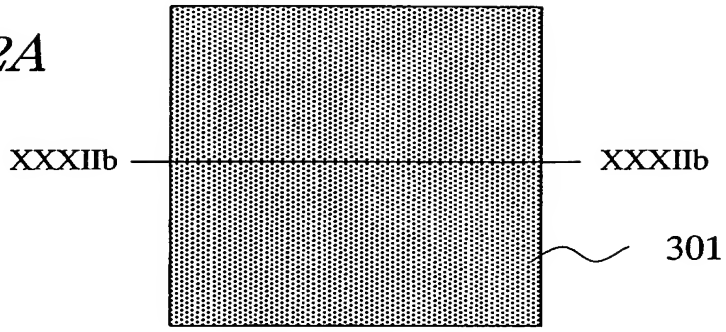


FIG.32B

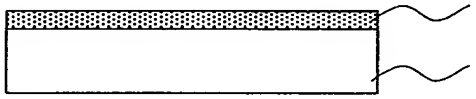


FIG.33A

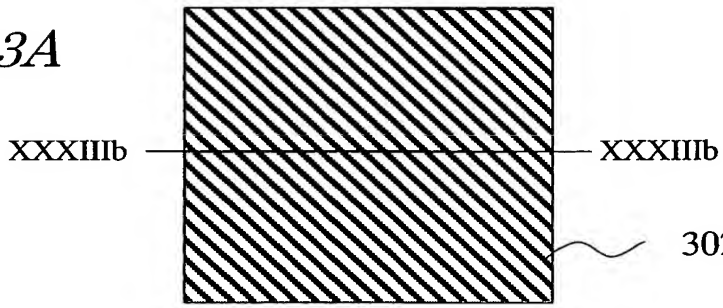


FIG.33B

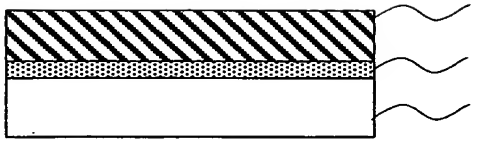


FIG.34A

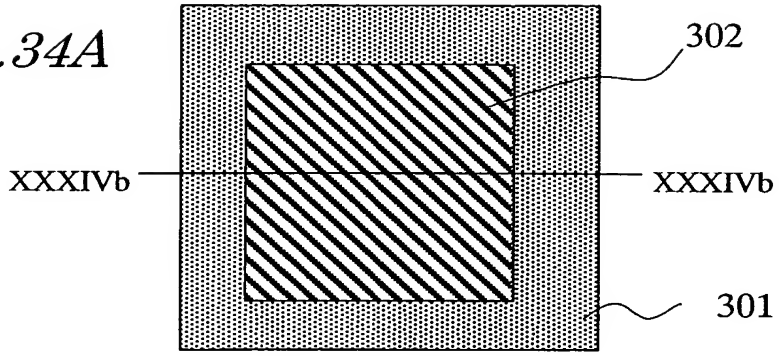


FIG.34B

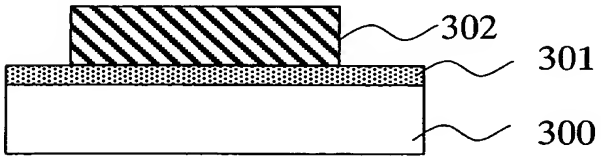


FIG.35A

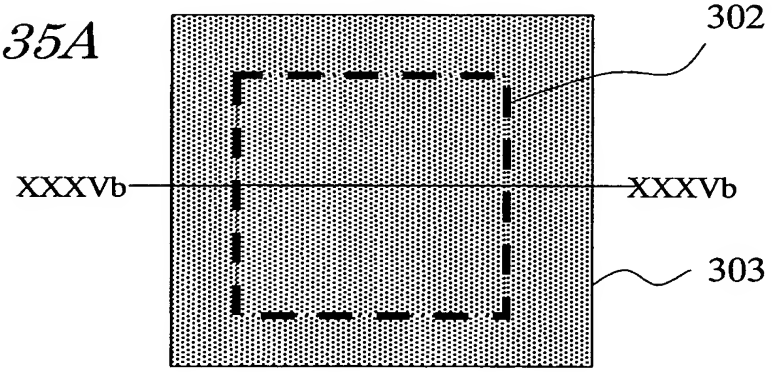


FIG.35B

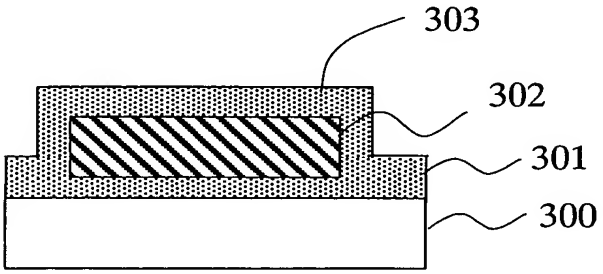


FIG.36A

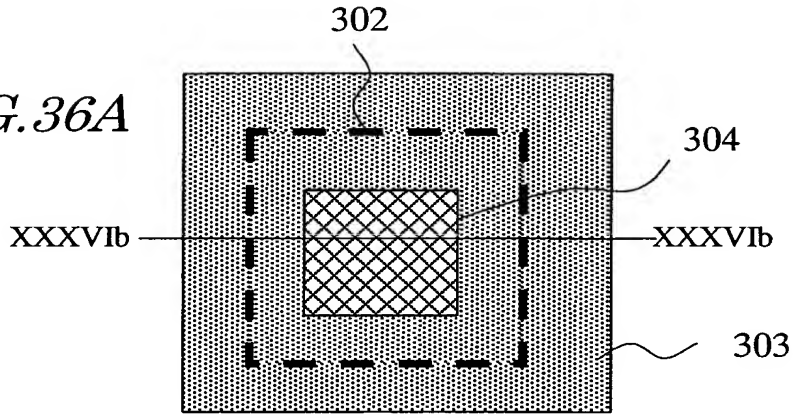


FIG.36B

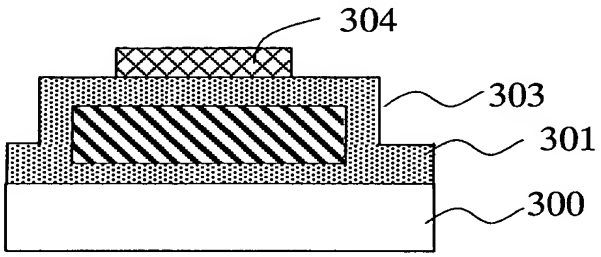


FIG.37A

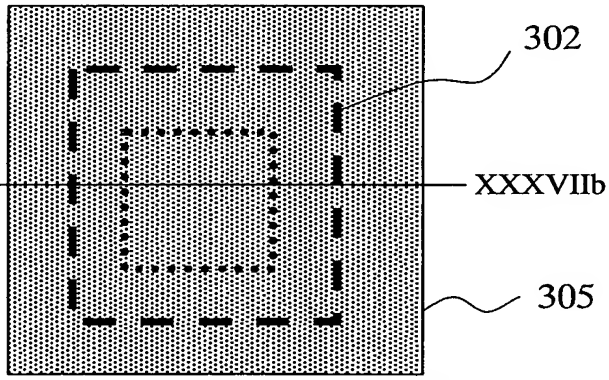


FIG.37B

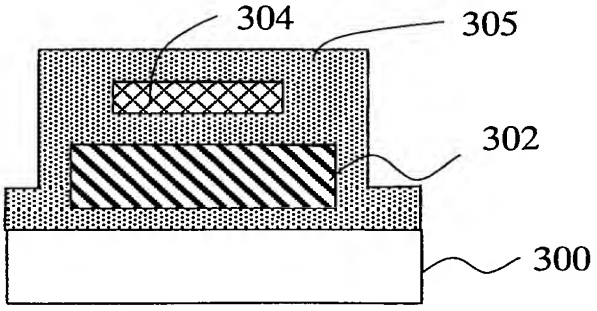


FIG.38A

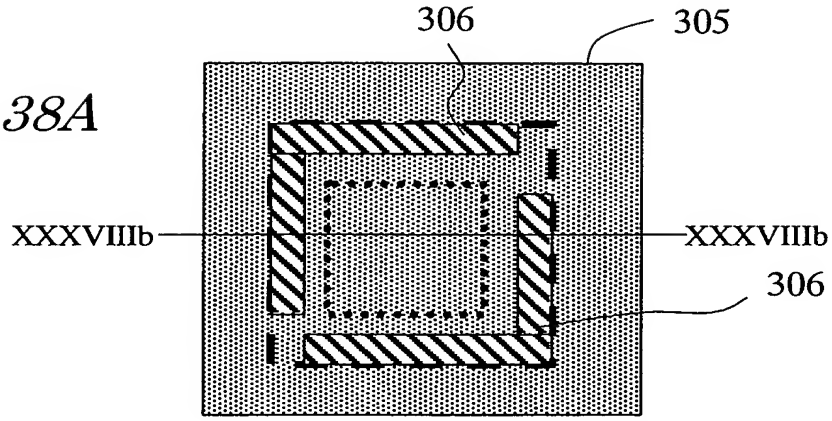


FIG.38B

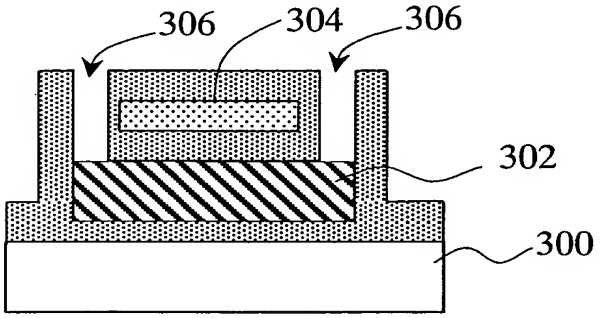


FIG.39A

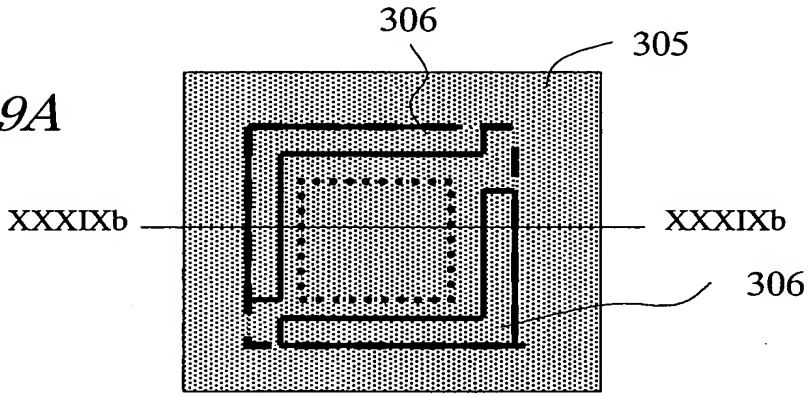


FIG.39B

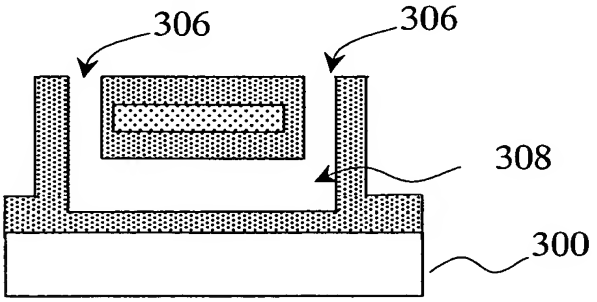


FIG. 40A

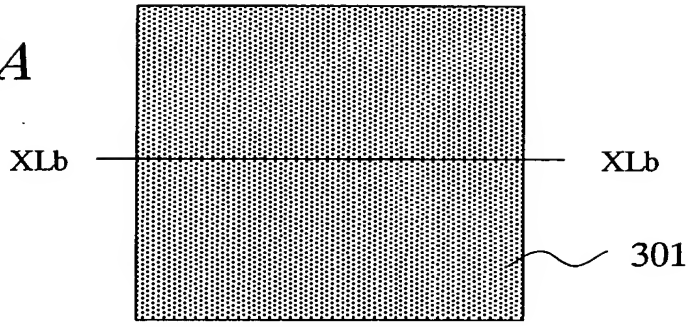


FIG. 40B

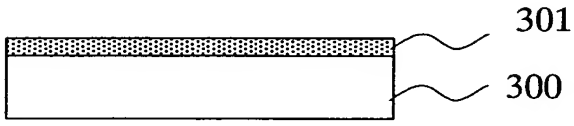


FIG. 41A

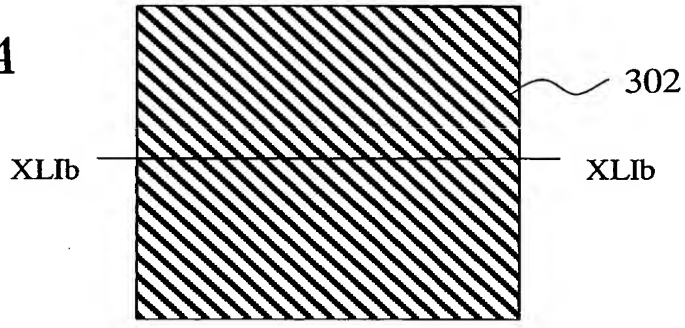


FIG. 41B

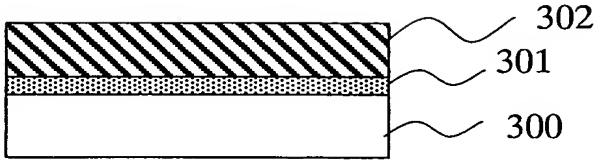


FIG42A

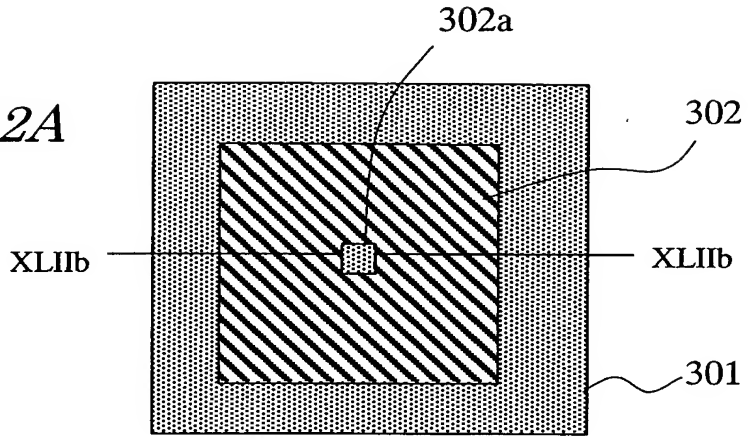


FIG. 42B

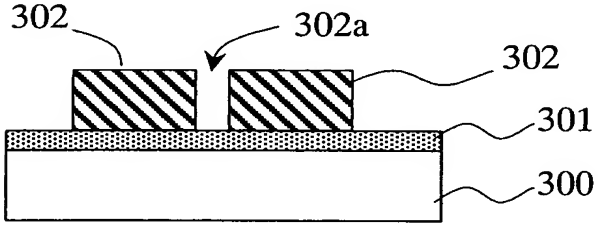


FIG. 43A

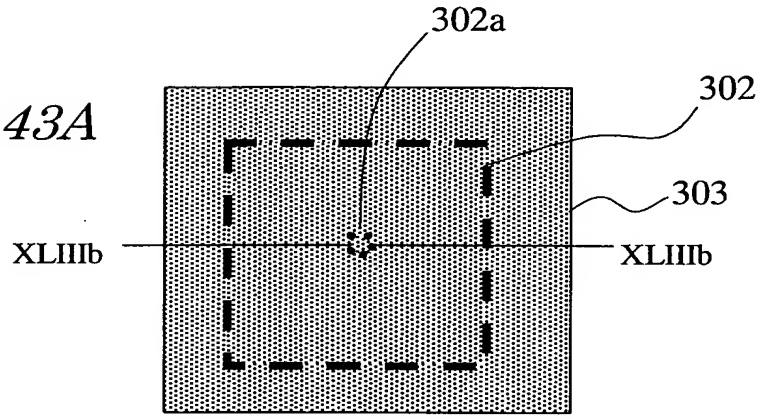


FIG. 43B

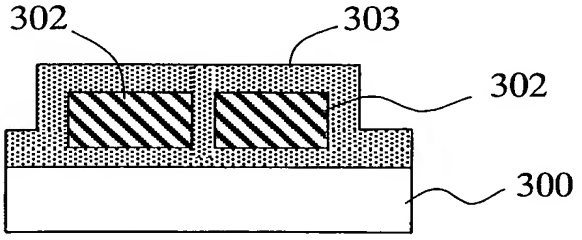


FIG. 44A

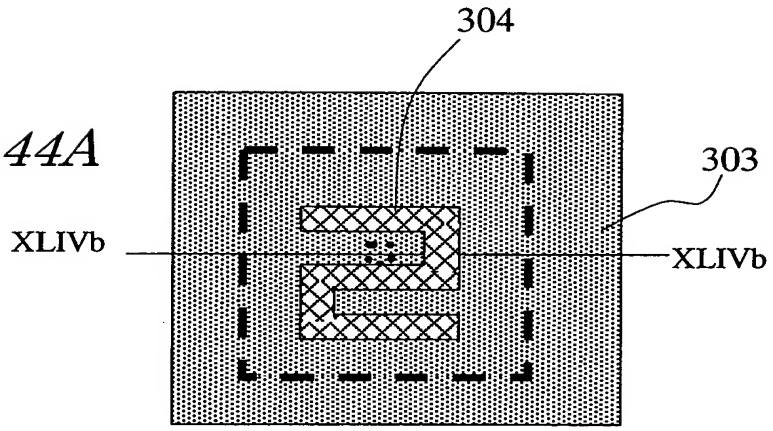


FIG. 44B

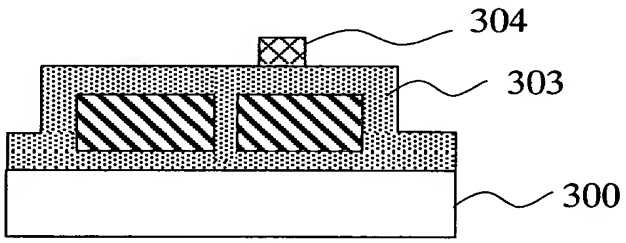


FIG. 45A

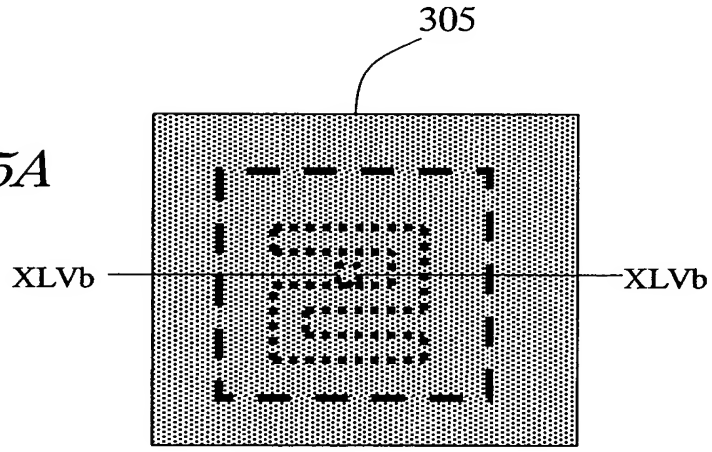


FIG. 45B

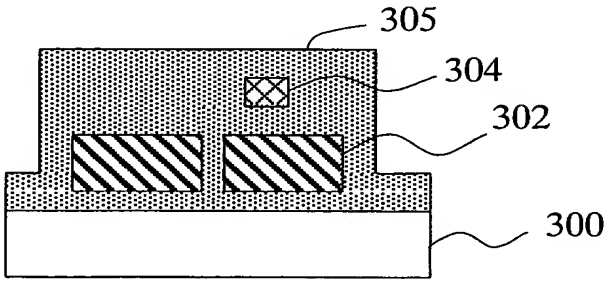


FIG. 46A

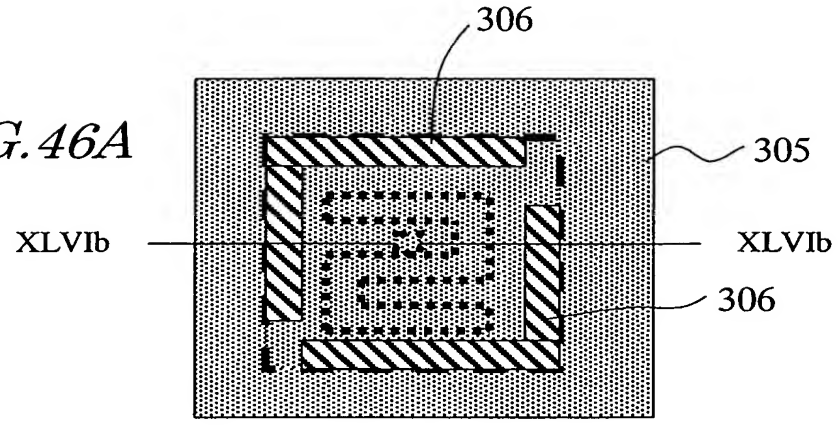


FIG. 46B

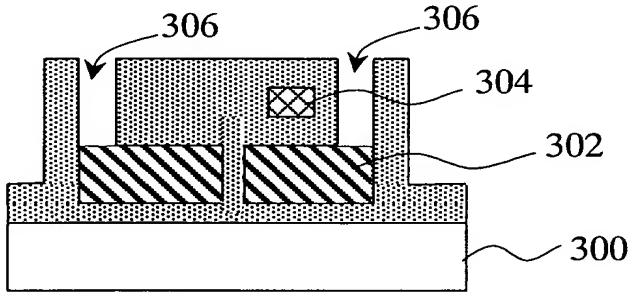


FIG. 47A

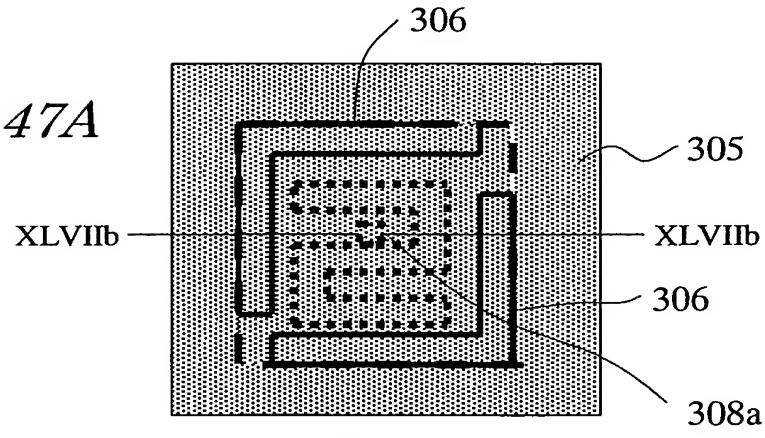


FIG. 47B

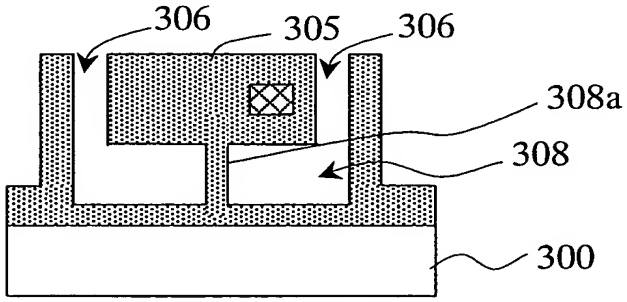


FIG. 48A

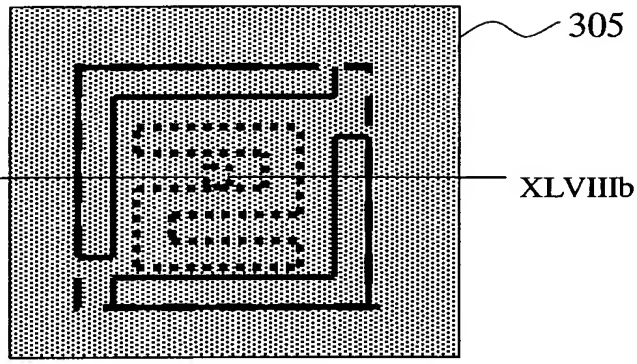


FIG. 48B

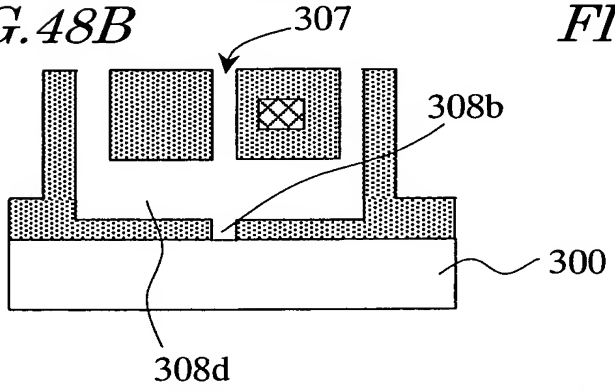


FIG. 48C

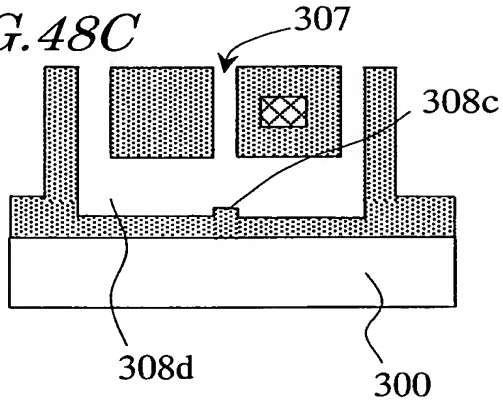


FIG. 49A

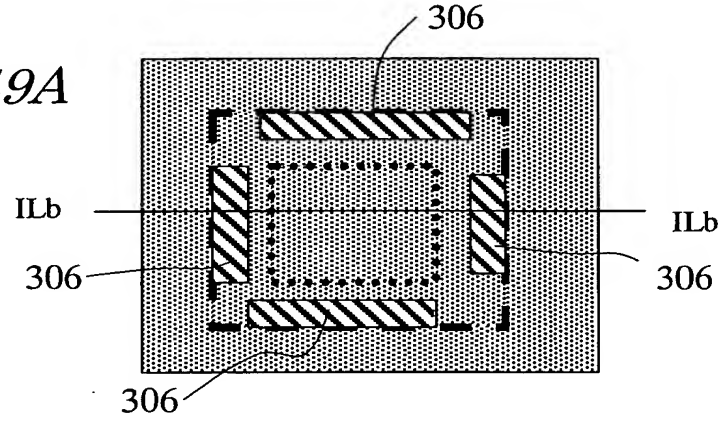


FIG. 49B

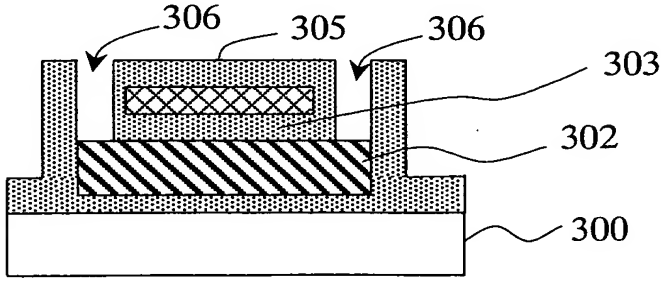


FIG.50A

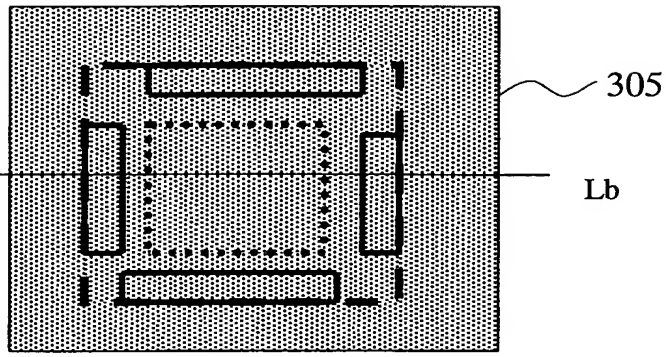


FIG.50B

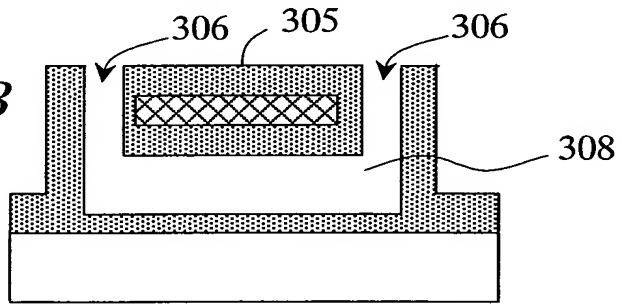


FIG.51A

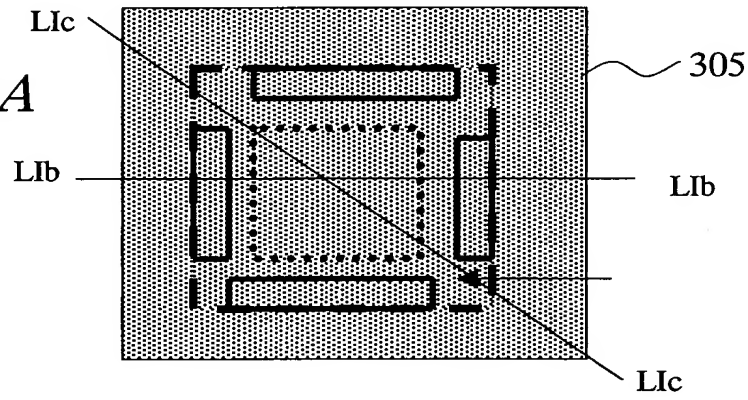


FIG. 51B

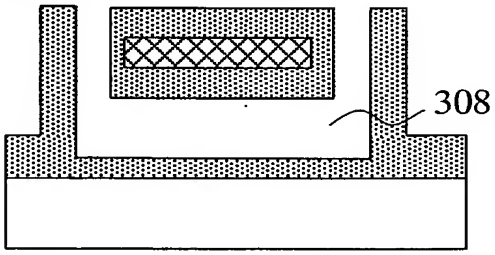


FIG. 51C

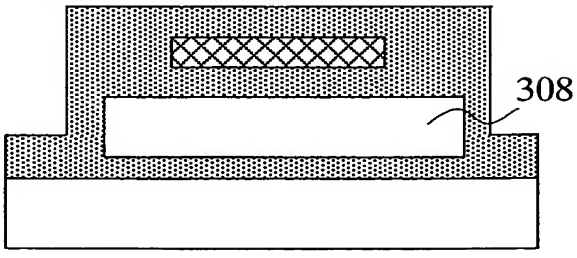


FIG. 52A

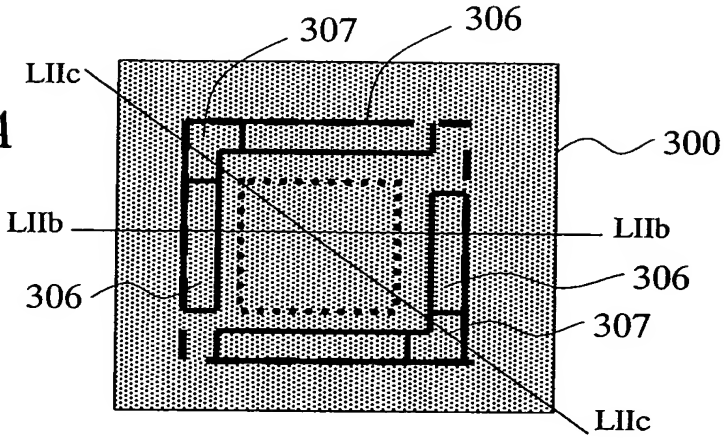


FIG. 52B

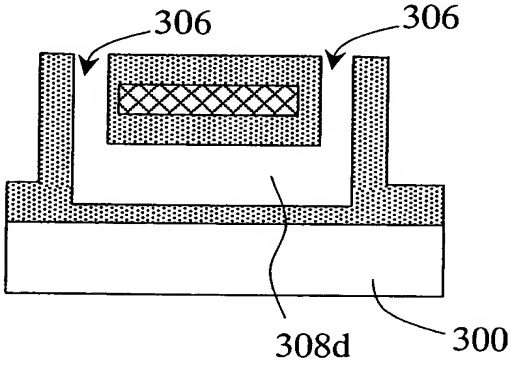


FIG. 52C

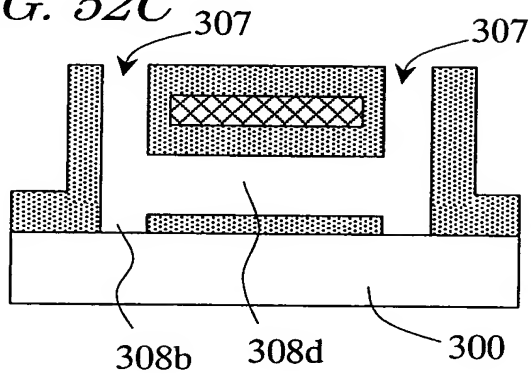


FIG. 53A

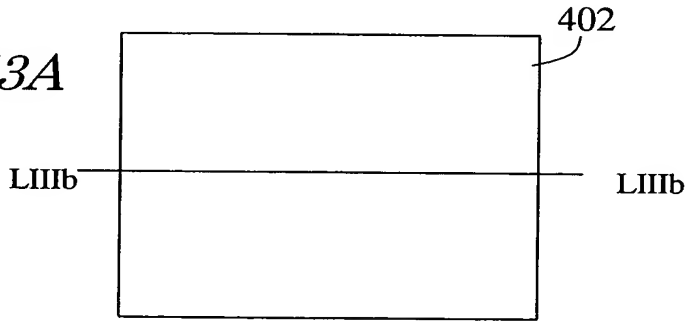


FIG. 53B

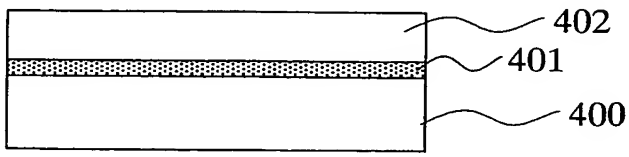


FIG.54A

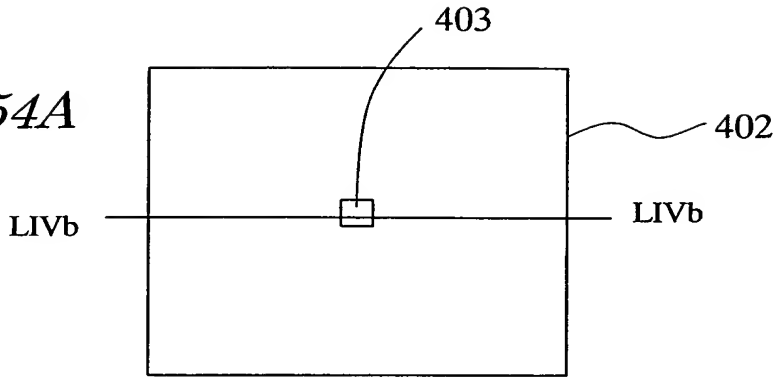


FIG.54B

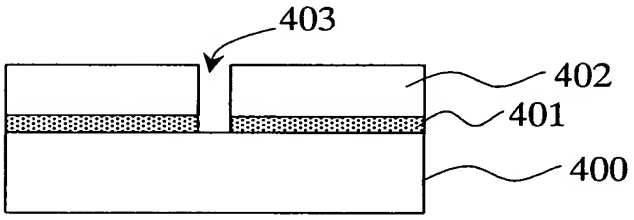


FIG.55A

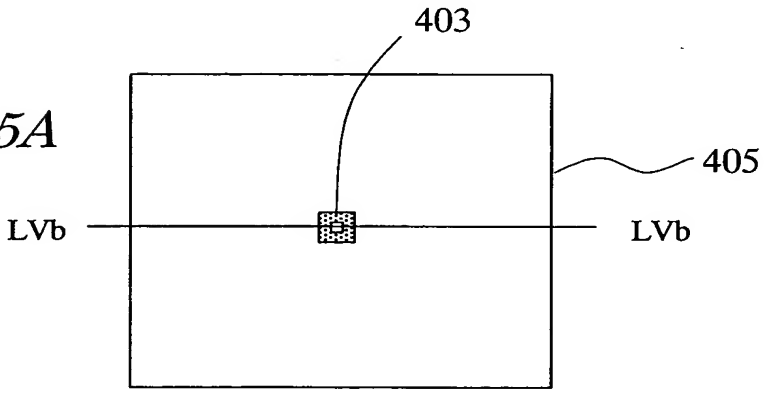


FIG. 55B

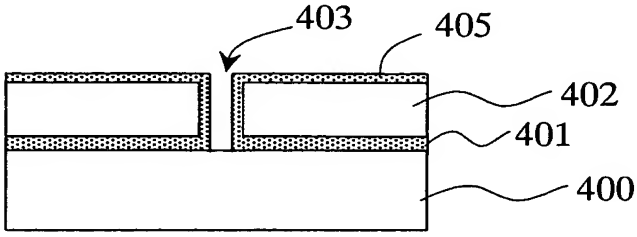


FIG. 56A

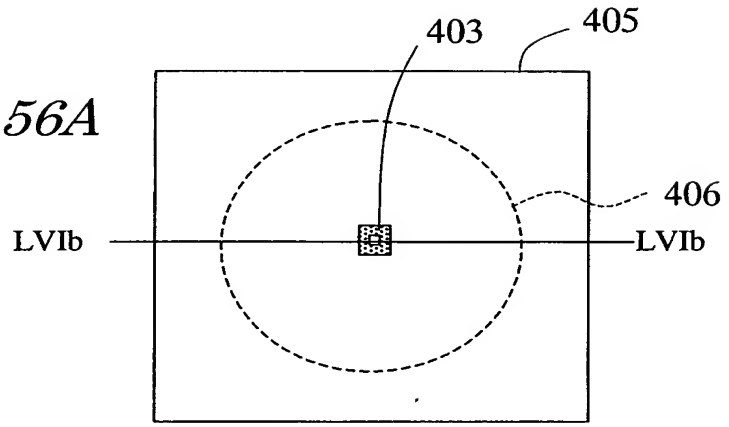


FIG. 56B

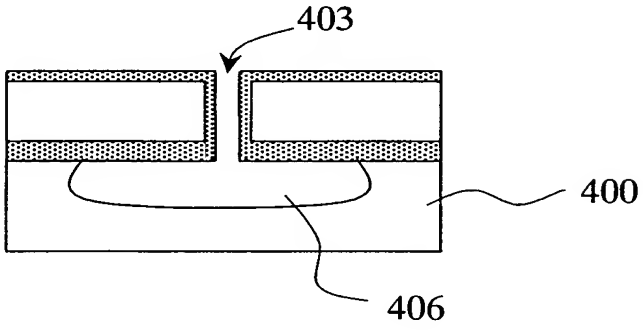


FIG. 57A

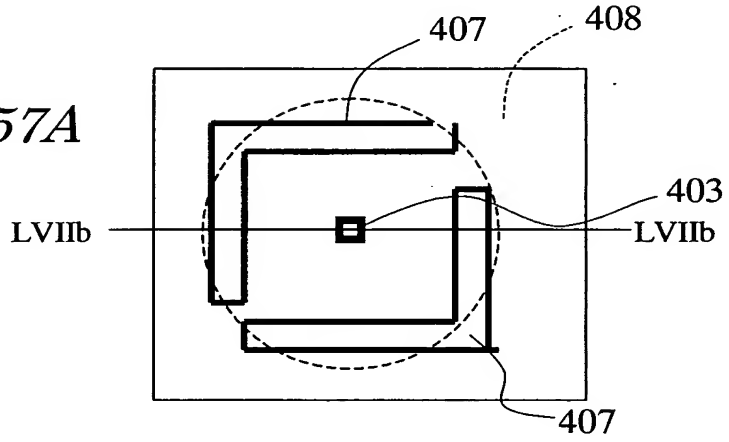


FIG. 57B

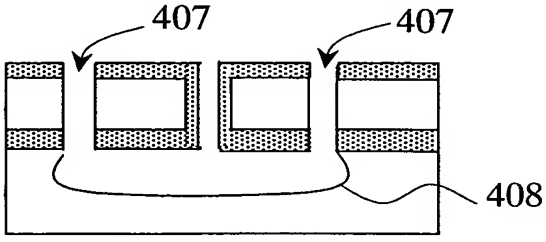


FIG. 58A

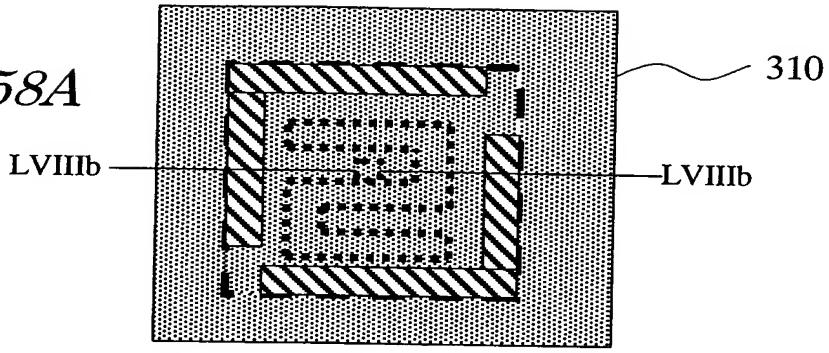


FIG. 58B

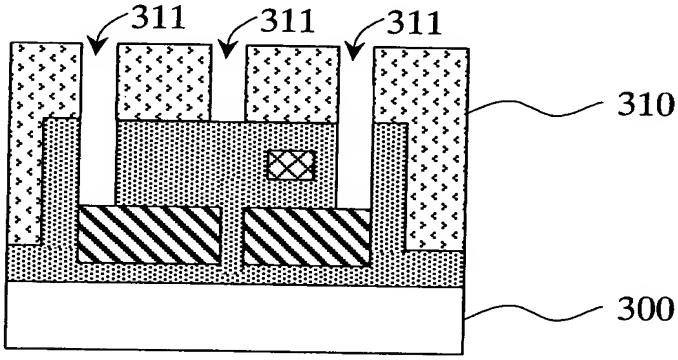


FIG. 59A

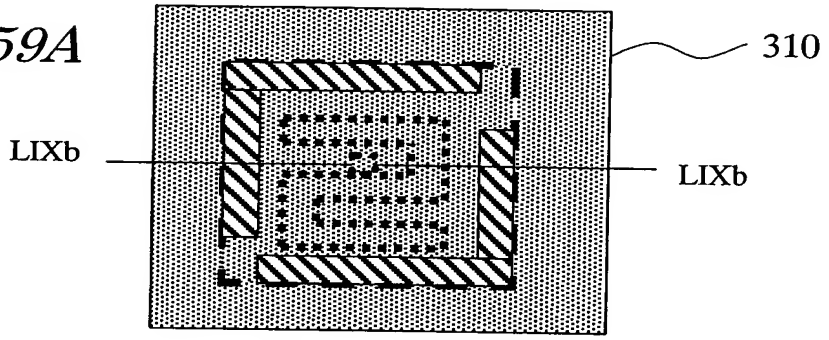


FIG. 59B

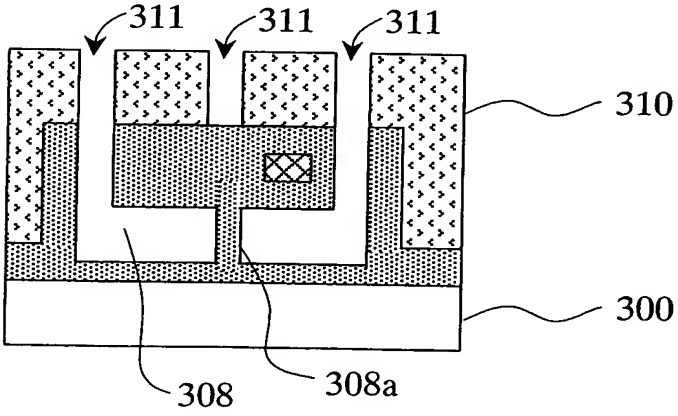


FIG. 60A

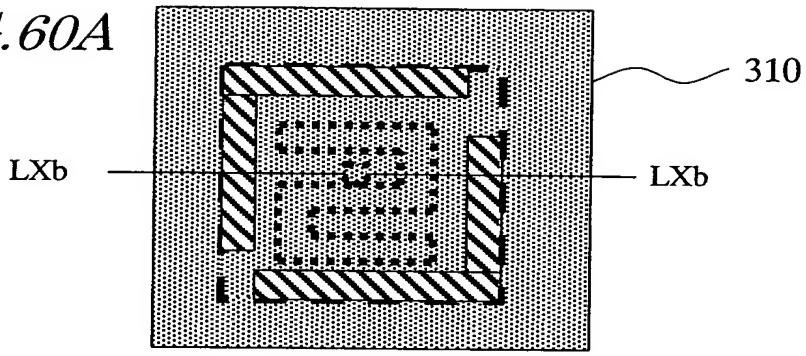


FIG. 60B

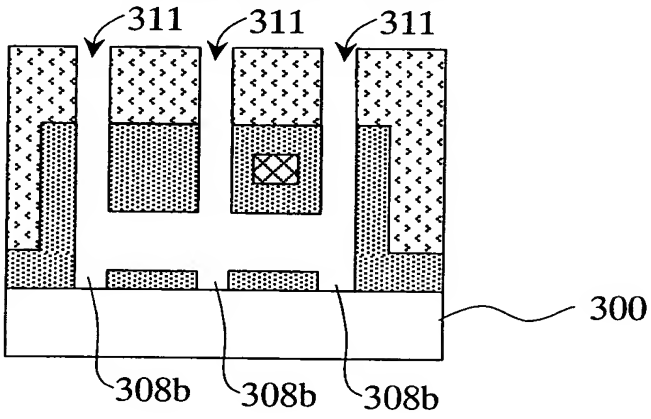


FIG. 61A

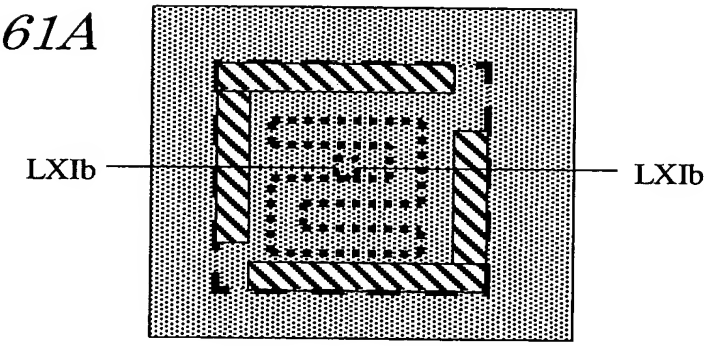


FIG. 61B